

NEW HETEROCERA FROM BRITISH NEW GUINEA.

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EUPTEROTIDAE.

1. *Hypercydas turneri* spec. nov.

♀. Head, thorax, and abdomen deep orange-red; terminal segment of abdomen slate-grey; both wings red-brown, with a preponderance of red; an ochreous pear-shaped spot at the end of the cell; a broad, slightly curved, oblique postmedian band of darker red; a subterminal deeply dentate ochreous line, from whence to the termen the colour is darker and more solid, the rest of the wing being somewhat thinly scaled, so as to give a slight appearance of being diaphanous. Secondary exactly like the forewing, but without the cell-spot; the veins in both wings are somewhat ochreous.

Expanse, 72 mm.

*Hab.* Kebea Range and Mafalu, 6000 ft., July and August.

Type in my collection.

2. *Hypercydas doricrana* spec. nov.

♀. Head, thorax, and abdomen bright deep orange-red; both wings darkish red-brown, with red preponderating. Primary with a broad oblique median band and very broad curved postmedian band of darker ground colour, the latter having a scalloped outer edge, adjoining which is a series of broad spear-head ochreous marks up to the termen; a large round ochreous spot at the end of the cell; all the veins distinctly ochreous. Secondary like the primary, but without the cell spot.

Expanse, 72 mm.

*Hab.* Aroa River, November.

Type in my collection.

*Epiccydas* gen. nov.

Legs densely hairy, tarsi covered with short hairs; head, thorax, and abdomen thickly covered with fine hair. Neuration: primary, with vein 4 from the lower angle, veins 5, 6, 7, 8, and 9 stalked; secondary with 4 from the lower angle, 5, 6, and 7 stalked.

Type. *Epiccydas ovata* B-B.

3. *Epiccydas ovata* spec. nov.

♀. Head, thorax, and abdomen orange-red; both wings pale, semitransparent, reddish. Primary with a large ovate white spot at the end of the cell; a whitish scalloped subterminal stripe, the scallops extended into spear-head points in the apical area. Secondary like the primary, but without the cell spot.

Expanse, 58 mm.

*Hab.* Ekeikei, May; Biagi (Mambaré River).

Type in my collection.

4. *Eupterote styx* spec. nov.

♂. Head, thorax, and primary dark umber-brown, the latter with a very obscure trace of three or four darker bands across the centre of the wing; a subterminal slightly curved, dull ochreous line darkly edged; from here a broad dark grey area with a scalloped external margin; termen dull ochreous brown. Secondary paler brown, with three or four obscure darker lines across the median area: a pale postmedian line darkly edged, followed by a broad dark grey band with a scalloped external margin; termen dull ochreous brown.

Expanse, 94 mm.

*Hab.* Mafalu, 6000 ft., August; Biagi.

Type in my collection.

*Paracydas* gen. nov.

Palpi minute; antennae bipectinate; wings, primary broad, rapidly expanding; costa slightly excavated; apex rounded, depressed; termen very slightly and evenly arched. Secondary rather small, with termen strongly rounded. Neuration: cell extremely small in both wings, not more than a fifth, with veinlets dividing it. Primary vein 4 from the lower angle, 5 from the upper angle, 6, 7, 8, 9 stalked, the latter rising suddenly to 11, and lying beneath it, 11 rising abruptly to 12, and lying below, touching it for all its length. Secondary with 3 and 4 from the lower angle, 5, 6, and 7 stalked.

Type: *Paracydas biagi* B-B.

5. *Paracydas biagi* spec. nov.

♂. Head and thorax deep reddish velvety chocolate-brown; abdomen orange-red; ventral surface brown. Primary deep reddish brown, with the terminal area broadly lilac-grey, preceded by a narrow grey line (in some specimens a small white spot is at the end of the cell). Secondary somewhat less dark and less red than the primary. In fresh specimens the texture is very silky.

Expanse, 54 mm.

*Hab.* Biagi, Mambaré River (A. S. Meek).

Type in my collection.

6. *Damata varians* spec. nov.

♂. Head and thorax dark brownish grey, with a slate-grey patch on the collar and pale ochreous grey patagia. Primary pale ochreous grey, with a large dark slate-grey patch from the end of the cell to the termen along vein 3, leaving a longish broad ochreous costal dash from the apex: an oblique darkish brown band from the base of vein 3 basewards; two obliquely placed dark velvety spots below vein 2, a mauve-grey stripe in the lower part of the cell; median and postmedian area brownish. Secondary creamy white, with a dark lunule at the anal angle. The primary has a mottled and much variegated appearance.

Expanse, 50 mm.

*Hab.* Kebea Range, July, 6000 ft.

Type in my collection.

**Neuroanomala** gen. nov.

♂. Palpi upturned, thickly fringed with hair below; second segment with projecting terminal tuft; third segment naked, short, porrect. Neuration: primary with veins 3 and 4 stalked, 5 from above the middle of the discocellulars, 6 from the upper angle, 7, 8, 9, 10 stalked, 11 appressed closely on to 12 for a short distance. Secondary with veins 3 and 4 stalked, 5 and 6 from the upper angle, 7 from before the end of the cell, 8 bent down on to the cell for a third; wings, costa nearly straight, depressed directly before the apex, apex rounded; termen slightly produced outwards to vein 5, receding rapidly to the tornus. Secondary somewhat truncate; termen slightly angled at vein 4.

Type: *Neuroanomala variegata* B-B.

7. **Neuroanomala variegata** spec. nov.

♂. Head, thorax, and abdomen pinkish ochreous; thorax finely irrorated with green; patagia edged finely with black. Primary pinkish ochreous, with base greenish, finely edged with black, the edging being sharply dentate; termen greenish, broad at the apex, tapering rapidly to vein 5, uniform from there to the tornus; internally edged with a fine interrupted black line, serrate in the apical area, waved below and extending basewards half along the inner margin; outside this is a somewhat scalloped white line, a dark, rusty spot at the end of the cell. Secondary pinkish ochreous, with a waved fine black edging produced strongly outwards in a bold curve; the upper part of this area is whitish; outside the black line the apical area is dark brown, tinged with greenish, with a greenish patch towards the tornus, extending slightly over the line internally.

Expanse, 50 mm.

*Hab.* Kebea Range, 6000 ft., March and April.

Type in my collection.

**Omestia** gen. nov.

Palpi fringed with hairs, upturned, third segment small; antennae bipectinate for two-thirds, set in a socket fringed with long hairs, almost meeting in a tuft in front; legs hairy, mid pair with one pair, hind pair with two pairs of spurs; thorax with patagia expanded into prominent tufts; a slight meta-thoracic central tuft; abdomen with lateral tufts on the two proximal segments and one dorsal tuft. Neuration: with vein 3 from before the angle, 4 from the angle, 5 from just above the middle of the discocellular, 6, 7, 8, 9, 10 stalked, 7 and 10 from the end of the ariole, 8 and 9 on a long stalk near the apex, 11 long depressed towards the ariole. Secondary 3 from before the angle, 4 from the angle, 5 from above the middle of the discocellular, 6 and 7 from the upper angle; wings, primary triangular, with costa nearly straight, depressed directly in front of apex, which is acute; termen slightly arched in the radial area. Secondary broadish, with a slight angle on the termen about vein 3.

Type: *Omestia bella* B-B.

8. **Omestia bella** spec. nov.

♂. Head pinkish brown, with a white bar in front of collar and white tuft; collar and thorax pale chestnut-brown, tufts darker at extremities; abdomen

paler, with creamy lateral tufts and a dark red dorsal tuft. Primary pale fawn-brown, with a median curved silvery stripe from vein 2, receding basewards, and continued obliquely to the costa in a paler stripe of ground colour; a paler postmedian stripe, broken at vein 3, and more so below vein 2; a subterminal pale stripe, broken at each vein, with a dark external edging, a very oblique dark line of shading from the postmedian line at the costa into the silvery stripe; cell darkly pointed on each of its margins; reniform palely edged; a double series of dark points between the postmedian and subterminal stripes; costa dark reddish, broadly purplish grey between the end of the cell and the apex; inner margin reddish from the base to the silvery stripe, a silvery white triangular spot outside that stripe; fringe dark reddish. Secondary pinkish ochreous at the base, with dark reddish fringe.

Expanse, 43 mm.

*Hab.* Kebea Range, July.

Type in my collection.

#### 9. *Omichlis lineata* spec. nov.

♂. Head and thorax pale ashy grey tinged with brownish; abdomen brownish. Primary pale ochreous ashy grey, with the lower margin of the cell and vein 4 narrowly reddish brown; an angled interrupted brown basal line, a trace of an interrupted median line, an indefinite roughly angled postmedian line followed by a roughly parallel row of fine dark dots; subterminal line scalloped and interrupted at the veins, two dark dots in the cell; reniform ochreous. Secondary pinkish brown, paler at the tornus, with a trace of a short twin dash.

Expanse, 44 mm.

*Hab.* Kebea Range, 6000 ft., July.

Type in my collection.

Allied to *O. ochracea* B-B.

#### 10. *Omichlis transversa* spec. nov.

♀. Head and thorax cinnamon-brown, abdomen brownish. Primary cinnamon-brown, with a trace of a fine interrupted angled basal line, a very obscure erect interrupted median line, a broad dark straight oblique postmedian line palely edged externally, followed by a slightly curved row of fine dots; subterminal line scalloped, interrupted at the veins; reniform edged by an ochreous line. Secondary pale cinnamon-brown, paler at the base.

Expanse, 51 mm.

*Hab.* Dinawa, May to June.

Type in my collection.

#### 11. *Omichlis trilineata* spec. nov.

♂. Head and thorax mauve-grey; collar darkly edged; abdomen pale chocolate-brown. Primary pale reddish grey, tinged with mauve; lower margin of cell and vein 4 outlined with reddish brown; a twin red-brown basal line to vein 1 $\alpha$ ; a twin median line broadly separated, straight, slightly oblique; a broad oblique red-brown postmedian line; a broad curved oblique subterminal line preceded internally by a fine line nearly parallel to it; the scalloped line near the termen is straight from the costa to vein 4, and only interrupted at the veins below this; it is finely edged

externally with white; reniform ochreous. Secondary uniform reddish brown, paler at the tornus, with a short twin dash.

Expanse, 44 mm.

*Hab.* Kebea Range, 6000 ft., July.

Type in my collection.

12. *Omichlis plagata* spec. nov.

♀. Head and thorax pale ochreous grey; abdomen pale chocolate-brown. Primary pale ochreous grey, with an obscure trace of a basal, median, and postmedian line; subterminal interrupted, scalloped line fine; a broad inner marginal chocolate-brown patch from the base below the cell extended up to vein 2 in an oval spot at its termination, and divided in the middle by a fine curved creamy line; reniform marked by a large round chocolate-brown spot. Secondary uniform pale pinkish brown.

Expanse, 49 mm.

*Hab.* Ekeikei, January and February.

Type in my collection.

13. *Omichlis strigata* spec. nov.

♂. Head and thorax cinnamon-brown; abdomen pale greyish brown. Primary pale pinkish brown, with dark stripes palely edged externally; a short basal stripe between the cell and vein 1a; a median and postmedian oblique stripe; subterminal line somewhat broken, especially as it nears the tornus; cell closed by a tawny reniform; the whole wing is irrorated in parts very finely. Secondary uniform dull pinkish brown.

Expanse, 44 mm.

*Hab.* Biagi, Mambaré River (A. S. Meek).

Type in my collection.

CYMATOPHORIDAE

*Habrona* gen. nov.

Palpi short, first two segments heavily scaled, porrect; third segment smoothly scaled, depressed slightly; antennae in male shortly bipectinate, and with cilia to nearly the end; legs, femora heavily haired; tibiae and tarsi roughly scaled; mid tibiae with one pair, hind tibiae with two pairs of spurs; thorax very heavily scaled; patagia almost tufted; metathorax with two large tufts. Neuration: primary vein 2 from centre of cell, 3 from before the angle, 4 from the angle, 5 from below the centre of the discocellulars, 6 from the upper angle, 7 and 8 stalked from the end of the ariole, anastomosing with 9 and 10 to form the ariole. Secondary 2 from before the middle of the cell, 3 from before the angle, 4 from the angle, 5 from above the angle, 6 from the upper angle, 7 near the middle of the cell, 8 bent down and nearly touching 7, then rising again to the apex.

Type: *Habrona alboplagata* B-B.

14. *Habrona alboplagata* spec. nov.

♂. Head and thorax grizzled pale chestnut-brown; abdomen ochreous grey. Primary russet-brown, with a white outwardly produced, somewhat scalloped and

irregular basal line, expanding into a spot on the upper margin of the cell, a trace of two dark median wavy lines followed by a strongly produced (outwards) post-median dark line, beyond which are two fine, very obscure, dark wavy lines rising in a small whitish costal patch, a large white patch at the apex and another at the tornus, with three white spots between them, and three white dots on the costa before the apex; termen with fine white spots; two white dots mark the reniform. Secondary shiny greyish, more ochreous at the base.

♀. Exactly like the male.

Expanse, 50 to 55 mm.

*Hab.* Kebea Range, Ekeikei, March and April, also July and August.

Type in my collection.

#### 15. *Habrona brunnea* spec. nov.

♂. Head and thorax dark sepia-brown; abdomen pale ochreous grey. Primary rich sepia-brown, with a pale chestnut basal line strongly angled in the fold, a trace of a very short similar line at the extreme base, a trace of twin dark median lines somewhat angled outwardly, a series of four finely waved outwardly angled postmedian lines, a paler brown wedge-shaped apical patch; a pale chestnut or creamy patch at the tornus, intersected with a tridentate short dash; termen with paler internervular dashes darkly edged, two dark spots in the cells. Secondary ochreous grey, pale at the base.

♀. Like the male, but the lines and marks are whiter.

Expanse, 50 to 54 mm.

*Hab.* Kebea Range, Dinawa, and most of the other localities, March to August.

Type in my collection.

#### 16. *Thyatira dinawa* B-B. (*Nor. Zool.* vol. xi. p. 381).

This is a *Risoba*, and will therefore be *Risoba dinawa* B-B.

*Thyatira cheikei* B-B. (*Nor. Zool.* vol. xi. p. 382) also belongs to the genus *Risoba*.

### SYNTOMIDAE.

#### 17. *Hyalæthea sublutea* spec. nov.

♂. Frons, head, and thorax black; patagia orange-yellow; abdomen black, with broad orange-yellow segmental divisions; forelegs with long orange-yellow fringes to the femora. Primary black, with a small ovate hyaline patch below vein 1, a large elongate hyaline patch occupying the whole area below the cell and vein 2, a subovate patch below vein 3, a semiovate patch below vein 4, and a somewhat broader patch above it; a long oblong patch below vein 7, and a semiovate patch above it; cell entirely hyaline. Secondary orange-yellow, with black apex and costa.

♀. Like the male, but brown and yellow instead of black and orange.

Expanse, 37 to 38 mm.

*Hab.* Owgarrā.

Type in my collection.

#### 18. *Euchromia epa* spec. nov.

♂. Frons whitish; head metallic green; tegulae and shoulders cream colour; patagia and thorax black, shot with metallic green; abdomen first segment cream-

colour, other segments metallic creamy colour, with a black inner edging, the black being broader towards the anal extremity; terminal segment black, ventral surface creamy, with fine black segmental edgings, broad on the two terminal segments. Primary with a small hyaline spot at base of cell, two in the middle, the lower spot twice as large as the upper, a green metallic crescent at end of cell, two ovate hyaline spots between veins 3 and 5, a subovate spot between veins 6 and 7, and a narrow hyaline dash below it. Secondary a milky elongate spot at base of cell, two narrow short spots below it, a discal hyaline band beyond the cell; cell closed with a metallic blue crescent.

Expanse, 48 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

Nearest *E. aemulina* Btl.

#### 19. *Euchromia ekeikei* spec. nov.

♂. Frons black, edged laterally and below with whitish; head, tegulae, shoulders and patagia rich metallic bluish green; thorax black; first abdominal segment creamy, next two segments black, broadly banded with rich metallic bluish green, rest of segments velvety black, shot with blue here and there; four middle segments bright crimson on the ventral surface, and the connecting edges of the corresponding segments above are the same colour. Primary basal area rich metallic bluish green; cell closed by a similar metallic spot, an elongate hyaline spot in base of cell, two large median spots, the lower very large and rather irregular, two elongate spots between veins 3 and 5, one elongate spot between veins 6 and 7. Secondary three large hyaline wedge-shaped spots separated by the veins; a hyaline band beyond the cell, composed of four spots; a metallic bluish-green spot at end of cell.

Expanse, 54 mm.

*Hab.* Ekeikei, March and April; Mafalu, August.

Type in my collection.

#### 20. *Euchromia pratti* spec. nov.

♂. Frons blackish; head and tegulae very pale metallic greenish; shoulders creamy; patagia and centre of thorax metallic greenish; first abdominal segment ochreous, next two segments black, broadly banded with very pale greenish metallic ochreous; next two or three segments black, edged with bright crimson; ventral surface banded with crimson on the three or four central segments. Primary deep black, a small hyaline basal spot in the cell, two large median spots, the lower twice the size of the upper, two elongate spots between veins 3 and 5, an elongate spot between veins 6 and 7, and a narrow short dash below it. Cell closed with a metallic blue crescent. Secondary with an elongate milky spot in the cell, and one or two small hyaline spots below it (these spots vary: in some specimens there are no spots, in others one or two); a broadish hyaline band beyond the cell; cell closed with a metallic blue spot.

♀ With tegulae creamy, and more crimson on the abdomen.

Expanse, 51 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

Near to *E. iria* Bois.

PSYCHIDAE.

*Claniades* gen. nov.

♂. Antennae bipectinate to tips; legs very heavily fringed with hair; tarsi bare, short; wings broad. Nervation with veins 4 and 5 stalked, 6 from well above the middle of the discocellulars, 7 from the upper angle, 8 and 9 stalked, 10 from before the angle. Secondary with vein 7 from the cell free, with no branch, 8 with no branches to the costa.

Type: *Claniades ekeikei* B-B.

21. *Claniades ekeikei* spec. nov.

♂. Head and thorax very hairy, rough but silky brown; abdomen greyer; both wings uniform pale goldenish brown, without any hyaline patches.

Expanse, 38 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

LIMACODIDAE.

*Mambara* gen. nov.

Palpi of moderate length, porrect, thickly scaled; antennae bipectinate for two-thirds; wings, primary broad, short, triangular; secondary truncate. Nervation: primary, vein 2 curved evenly downwards to termen, 3 from before the angle, 4 from the angle, 5 from above the angle, 6 from just above the middle of the discocellulars, 7 from the upper angle, 8, 9, and 10 stalked, 11 rising suddenly to 12, and lying directly beneath it most of its length, a veinlet from the middle of the discocellulars bisecting the cell; secondary, with vein 3 from before the angle, 4 from the angle, 5 from just above the angle, 6 and 7 stalked, a veinlet from the discocellulars bisecting the cell.

Type: *Mambara inconspicua* B-B.

22. *Mambara inconspicua* spec. nov.

♂. Head, thorax, abdomen, and primary pale pinkish ochreous brown. Primary with an obscure trace of a dark median and postmedian line, the latter slightly excurved. Secondary uniform pale pinkish ochreous.

Expanse, 24 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

23. *Chalccocelis rubra* spec. nov.

♂. Head and thorax rich crimson-brown; abdomen slightly paler. Primary crimson-brown, with a large dark velvety patch occupying the median and postmedian areas into the tornus, with a similar, somewhat wedge-shaped patch at the end of the cell, separated from each other by a broad dash of the paler ground colour. Secondary uniform pinkish brown.

Expanse, 33 mm.

*Hab.* Kebea Range, June.

Type in my collection.



**Squamosa** gen. nov.

♂. Palpi short, porrect, thickly scaled; antennae bipectinate for about half the length; wings, primary moderately broad; costa nearly straight for four-fifths, somewhat depressed to apex; termen slightly excurved; secondary smallish termen evenly curved. Neuration: primary with vein 4 from the angle, 5 from directly above the angle, 6 from the middle of the discocellulars, 7, 8, and 9 stalked, 10 and 11 from the cell, cell with anastomosing veinlets bisecting it; secondary with vein 4 from the angle, 5 from directly above the angle, 6 and 7 from the upper angle.

Type: *Squamosa ferruginea* B-B.

24. **Squamosa ferruginea** spec. nov.

♂. Head and thorax ferruginous ochreous; abdomen ochreous, with a central rusty red dorsal line. Primary rusty reddish for three-quarters of the wing, terminating in an incurved edge; terminal area paler rusty orange, a white spot closing the cell. Secondary pale orange, with a deep red spot.

Expanse, 42 mm.

*Hab.* Kebea Range, July.

Type in my collection.

## LASIOCAMPIDAE.

25. **Metanastris** *hades* spec. nov.

♂. Head and collar grizzly; thorax dark orange-brown; abdomen dark brown, banded with tawny. Primary dark greyish brown, with a dark obscure nearly erect slightly curved median line, postmedian line oblique slightly excurved; area beyond this line paler; a subterminal row of dark internervular spots; a small whitish spot in the cell; wing sparingly irrorated with ochreous grey. Secondary uniform greyish brown, tawny at the base.

Expanse, 71 mm.

*Hab.* Kebea Range, July.

Type in my collection.

26. **Metanastris** *babooni* spec. nov.

♂. Head and collar greyish; thorax reddish chocolate; abdomen black, barred with tawny. Primary reddish chocolate, with a pale grey irregular antemedian line, a broad median band of pale greyish, and a broad irregular similar postmedian band, followed by a fine greyish subcrenulate line, a small white spot in the cell, a subterminal row of grey spots pupilled with black; terminal area with some greyish irroration. Secondary reddish chocolate, with a broad pale medium band darkly edged on each side.

Expanse, 71 mm.

*Hab.* Babooni, July.

Type in my collection.

27. **Metanastris** *mafala* spec. nov.

♀. Head, collar, and centre of thorax pale chestnut-brown, patagia with ochreous hairs; abdomen pale tawny brown. Primary pale tawny brown mixed

with ochreous, an antemedian pale band darkly edged, a creamy spot in the cell, a postmedian very oblique dark line edged with ochreous, followed by a second similar line subrenulate below vein 7, an irregular row of large dark chestnut subterminal internervular spots edged with ochreous. Secondary pale tawny, paler towards the base, with a straight oblique median line, and a wavy postmedian line; fringes pale ochreous grey.

Expanse, 89 mm.

*Hab.* Mafaln, 6000 ft., August.

Type in my collection.

### **Pararguda gen. nov.**

Palpi longish, thickly scaled, porrect; end segment depressed; antennae bipectinate to tip; legs hairy, mid and hind pair heavily fringed; wings, primary subtriangular, broadish; costa evenly arched; apex depressed; termen erect. Secondary with costa and apex excised. Neuration: primary with vein 4 from the lower angle, 5 from just above, 6 and 7 stalked, rising with 8 from the upper angle, 9 and 10 stalked, 11 rising rapidly to 12, and lying appressed to 12 for the rest of its length; secondary with veins 4 and 5 stalked, 7 free from the base, 8 not depressed towards 7, no accessory veinlets from 8. Cells short in both wings.

Type: *Pararguda rufa* B-B.

### **28. Pararguda rufa spec. nov.**

♂. Head, thorax, and abdomen reddish brown. Primary uniform bright reddish brown, with a dark oblique antemedian line and a similar more oblique postmedian line, a dark dot in the cell, a trace of an irregular subterminal dark greyish line; termen slightly scaled with grey. Secondary uniform dark red brown, with a trace of a median line.

Expanse, 40 mm.

*Hab.* Kebea Range, 6000 ft., July.

Type in my collection.

### **29. Pararguda pallens spec. nov.**

♂. Head and thorax pale ochreous grey; abdomen rather darker. Primary pale ochreous grey, with a dark oblique antemedian line and a very oblique postmedian line, sharply angled below the costa; a trace of a spotted subterminal line; termen and inner marginal edge finely dark; a dark dot in the cell. Secondary pale ochreous grey at the base, becoming tawny grey beyond the cell.

Expanse, 43 mm.

*Hab.* Kebea Range, 6000 ft., July.

Type in my collection.

## **LYMANTRIIDAE.**

### **30. Caviria owgarra spec. nov.**

♂. Head, thorax, and abdomen pale straw colour; antennae black; forelegs black; mid and hindlegs pale straw colour, with blackish tarsi. Primary pure

shining white, slightly tinged with pale straw-colour at the extreme base ; secondary pure white ; neither of the wings diaphanous at all.

Expanse, 32 mm.

*Hab.* Owgarra.

Type in my collection.

31. *Porthesia biagi* spec. nov.

♀. Head and thorax white ; metathorax tinged with orange ; abdomen orange. Primary white, with a very slight suffusion of very fine pale orange irroration, through which a broad median and postmedian line shows somewhat distinctly, the latter receding basewards below vein 4 ; inner margin more prominently suffused with orange. Secondary white, orange-yellow along the inner margin and up to the cell.

Expanse, 42 mm.

*Hab.* Biagi, Dinawa, and other localities.

Type in my collection.

32. *Porthesia pallens* spec. nov.

♀. Head, thorax, and abdomen pale whitish ochreous ; both wings pale straw colour. Primary with a pale median line, and also a pale postmedian line receding basewards about vein 4 ; the internervular spaces are filled in with deeper straw colour.

Expanse, 35 mm.

*Hab.* Aroa River.

Type in my collection.

33. *Porthesia radiata* spec. nov.

♀. Head, thorax, and abdomen lemon-yellow. Primary lemon-yellow, with a trace of an oblique pale median line, and a more distinct pale oblique postmedian line ; the internervular spaces broadly filled in with orange. Secondary pale lemon-yellow.

Expanse, 50 mm.

*Hab.* Babooni, Kebea Range, July.

Type in my collection.

This species is very similar to *Euproctis titanica* Druce, of which we have a fair series ; but it is a *Porthesia*.

34. *Porthesia squamosa* spec. nov.

♂. Head, thorax, and abdomen orange-brown. Primary pale straw colour, with a deep orange fulvous patch, a third from the base of the inner margin, internervular spaces filled in with pale orange. Secondary pale straw colour ; basal and median area deeper yellow.

♀. Paler than the male ; internervular spaces of primary roughly irrorated with darker scales.

Expanse : ♂ 39 ; ♀ 49 mm.

*Hab.* Kebea Range, 6000 ft., March and April ; Avola, August, 6000 ft.

Types in my collection.

35. *Porthesia lutearia* spec. nov.

♀. Head, thorax, and abdomen pale orange. Primary uniform orange colour, with deep orange along the inner margin. The wing surface is rough in texture. Secondary chrome-yellow.

Expanse, 36 mm.

*Hab.* Ekeikei, January and February.

Type in my collection.

*Porthmeia* gen. nov.

Palpi minute, porrect; antennae bipectinate in both sexes, with cilia (in male) to branches; pectinations wide apart, especially so in the male; legs with a few long bristles; tarsi nearly bare; wings, primary subovate; costa slightly and evenly arched; termen more strongly arched near the apex, gradually receding to the tornus; secondary small. Neuration: vein 2 from the middle of the cell, 3 from before the lower angle, 4 from the angle, 5 from above the angle, 6 from the upper angle, 7, 8, 9, and 10 stalked, 7 from midway between the cell and vein 10; secondary, veins 3 and 4 from the lower angle, 5 absent, 6 and 7 on a long stalk from the upper angle, 8 bent down to 7 and shortly anastomosing.

Type: *Porthmeia subnigra* B-B.

36. *Porthmeia subnigra* spec. nov.

♂. Head, thorax, and abdomen black; patagia and collar tipped with orange. Primary orange, with the basal third and the apical third having the internervular spaces filled in with black, leaving an oblique broad orange band across the median area. Secondary uniform deep black.

♀. Like the male in all respects, but with a white anal tuft.

Expanse: ♂ 34; ♀ 42 mm.

*Hab.* Ougarra.

Type in my collection.

37. *Porthmeia bicolora* spec. nov.

♂. Head, collar, and patagia ochraceous; thorax and abdomen black. Primary uniform ochreous, with the outer half of costa and the termen finely black. Secondary deep black, with a terminal line of orange; fringes black.

Expanse, 32 mm.

*Hab.* Ougarra.

Type in my collection.

38. *Euproctis stramenta* spec. nov.

♂. Head and thorax straw colour; abdomen whitish, with the anal extremity bright chestnut; both wings pale straw colour without any markings.

♀. Like the male, except that the anal segment is not chestnut colour.

Expanse: ♂ 29; ♀ 39 mm.

*Hab.* Ougarra.

Types in my collection.

39. *Euproctis luteomarginata* spec. nov.

♀. Head, collar, and patagia pure white ; rest of thorax and abdomen bright orange. Primary pure white, with basal two-thirds of inner margin finely bright orange ; a trace of a median and postmedian waved orange line confluent on the inner margin. Secondary white, with the inner margin orange into the cell.

Expanse, 43 mm.

*Hab.* Ougarra.

Type in my collection.

I have one specimen which is straw colour, and the waved lines of the primary are distinct.

40. *Euproctis lunula* spec. nov.

♂. Head and thorax dirty straw colour ; abdomen orange. Primary cream colour, with a trace of an erect median line and a yellowish postmedian line receding basewards below vein 5 ; a deep chocolate lunule at the end of the cell. Secondary cream colour, orange for the basal two-thirds.

Expanse, 34 mm.

*Hab.* Ougarra ; Biagi, 5000 ft.

Type in my collection.

The colour and pattern rapidly fade and become almost white.

*Euproctis dinawa* B-B. The ♀ of this species is not pale as described (*Nov. Zool.* vol. xi. p. 39), but is exactly like the male ; more material shows that my supposed female belongs to another species.

*Euproctis noraguinensis* B-B. I have received a male of this species since my paper (*l.c.*) was written, which is exactly like the ♀, with the exception that the dark area of the secondaries is slightly larger.

41. *Euproctis pulchra* spec. nov.

♀. Head, thorax, and first abdominal segment pinkish buff ; abdomen black, anal segment whitish. Primary pinkish buff, with the veins showing yellowish ; the internervular spaces broadly filled in with red in the terminal area. Secondary chrome-yellow, with the inner margin black into the cell and up to the base.

Expanse, 58 mm.

*Hab.* Kebea Range, 3600 ft., July.

Type in my collection.

42. *Euproctis grisata* spec. nov.

♀. Head and thorax pale grizzly brown ; abdomen black, with whitish anal segment. Primary pale grizzly brown, without any marks except a trace of a pale lunule at the end of the cell. The wing has a rough scaly texture. Secondary chrome-yellow, with the basal half deep black, terminating in a curve in the terminus.

Expanse, 36 mm.

*Hab.* Kebea Range, 3600 ft., July.

Type in my collection.

This species is near *E. egregia* Swinhoe.

43. *Euproctis coniochroa* spec. nov.

♀. Head and thorax dirty grey; abdomen darker; both wings dirty grey; the secondaries rather darker than the primaries; no pattern on either wing.

Expanse, 53 mm.

*Hab.* Avola, 6000 ft., August.

Type in my collection.

This species is near *E. defecita* Walker.

44. *Euproctis mambara* spec. nov.

♂. Head and thorax and first abdominal segment very hairy bark red; rest of abdomen black, with white anal segment. Primary uniform bark red, finely irrorated with dark grey. Secondary uniform chrome-yellow.

Expanse, 49 mm.

*Hab.* Riagi, Mambaré River, 5000 ft., April.

Type in my collection.

45. *Euproctis xutha* spec. nov.

♂. Head, thorax, and first abdominal segments orange-red; abdomen deep reddish, with pale anal segment. Primary dirty orange brownish, with a very broad postmedian reddish waved band, beyond which is a broad area of yellowish; termen reddish. Secondary uniform orange-yellow.

♀. Like the male, but less dark and more uniform in colour.

Expanse: ♂ 52; ♀ 68 mm.

*Hab.* Kebea Range, June, 3600 ft.; Ekeikei, May, 1500 ft.

Type in my collection.

46. *Euproctis luteosa* spec. nov.

♂. Head and thorax clear chrome-yellow; abdomen darker, with a brownish anal segment. Primary clear markless chrome-yellow. Secondary uniformly somewhat paler.

Expanse, 44 mm.

*Hab.* Owgarra.

Type in my collection.

47. *Euproctis rotunda* spec. nov.

♂. Head, thorax, and abdomen deep fulvous, with whitish terminal segment; both wings deep fulvous, with a large round cream-coloured spot at the end of the cell, a row of subterminal deep cream spear-head marks extending into the termen. Secondary with the spear-head marks narrower than in the primary.

♀. Like the male in all respects, except that the anal tuft is grey, not whitish.

Expanse, ♂ 56; ♀ 74 mm.

*Hab.* Mafalu, 6000 ft., August.

Type in my collection.

*Neorgyia* gen. nov.

Palpi short, porrect, roughly fringed with long hairs; antennae, ♀, subserrate, with rough hairs. Neuration: primary, with vein 2 long before the angle, 3 from before the angle, 4 and 5 from the angle, 6 from below the upper angle, 7 from the

end of the ariole, 8 and 9 from the ariole stalked on a long highly curved stalk, 10 from the ariole close to 8, 11 anastomosing shortly with 12 then lying close above 10; secondary with 2 from long before the angle, 3 from before the angle, 4 from the angle, 5 from well above the angle, 6 and 7 stalked, 8 bent slightly to meet 7, which rises up just to touch it.

Type: *Neorgyia ochracea* B-B.

48. *Neorgyia ochracea* spec. nov.

♀. Head, thorax, and abdomen greyish ochraceous, roughly haired. Primary ochraceous grey, with a pale scalloped antemedian line, a subrenulate postmedian line adjoining the pale buff reniform; subterminal stripe of dark internervular dashes edged with whitish externally filling up the nerve spaces, prominent in the subapical area, but almost disappearing below vein 4 or 5; an irregular broken darkish line before the termen. Secondary uniform semidiaphanous cream colour.

Expanse, 36 mm.

*Hab.* Biagi, Mambaré River, February.

Type in my collection.

*Parakanchia* gen. nov.

Palpi minute, porrect, hairy; antennae shortly bipectinate. ♀. Legs hairy, hind pair with two pairs of spurs. Neuration with veins 4 and 5 from the lower angle, 6, 7, 8, 9, and 10 stalked, 8 and 9 near the apex, 10 midway between 7 and 9, 10 rising from 11 to form an ariole, midway between the cell and 7. Secondary with veins 4 and 5 from the lower angle, 6 and 7 stalked.

Type: *Parakanchia grisea* B-B.

49. *Parakanchia grisea* spec. nov.

♀. Head, thorax, and abdomen darkish grey; abdomen with the anal segment pale. Primary grey, roughly irrorated with darker grey, a blackish broad waved antemedian band, a blackish spot at the end of the cell, a blackish interrupted subterminal line, rising in two largish subcostal spots, and angled in the fold. Secondary uniform neutral greyish.

Expanse, 50 mm.

*Hab.* Babooni, August.

Type in my collection.

50. *Lymantria novoguineensis* B-B.

Dr. Turner asks (*Trans. R. Soc. S. Aust.* vol. xxx. p. 125) whether this species is variable. We have a large series, and I can find no variation whatever; it is a most constant insect both as regards size and markings.

51. *Lymantria lygaea* spec. nov.

♂. Head, antennae, and thorax umber-brown; abdomen rosy. Primary umber-brown, with dark brown markings, an interrupted basal line, a median subserrate line projected outwards in the cell, receding basewards below it, a dumb-bell shaped dash in the cell, which is closed by a double spot, a more or less obscure postmedian serrate line receding basewards below the cell; in the

postmedial and subterminal area are two more irregular serrate lines receding slightly basewards below vein 3; termen darkly spotted. Secondary uniform brownish grey.

Expanse, 38 mm.

*Hab.* Ekeikei, January and February.

Type in my collection.

52. *Anthela charon* spec. nov.

♂. Head, thorax, abdomen, and both wings very dark sooty brown; the primaries and secondaries with an oblique darker postmedian line. Primaries with a white dot in the cell and another larger one at the end of the cell.

Expanse, 59-60 mm.

*Hab.* Mafalu, 6000 ft., August; Kebea Range, July.

Type in my collection.

Specimens from the Kebea Range are less dark, with a trace of an irregular antemedian and median line, and a row of dark dots outside the postmedian line.

ARCTIIDAE.

53. *Spilosoma avola* spec. nov.

♀. Head and thorax white; abdomen greyish; both wings white, inclined to be diaphanous. Primary with an erect median row of distinct dark spots straight across the wing, followed by a short oblique series of three or four spots to above vein 2, an oblique series of similar spots from the apex: these two series look as though they should form an oblique continuous row of spots; two small dark spots below the costa at the end of the cell. Secondary spotless.

Expanse, 56 mm.

*Hab.* Avola, 6000 ft., August.

Type in my collection.

54. *Diacrisia biagi* spec. nov.

♂. Palpi deep black; head and thorax soft otter brown; collar darker; centre of thorax broadly blackish; abdomen dirty orange colour, with broad black dorsal and lateral stripes; pectus and legs deep black; fore femora edged with orange. Primary pale brown, with veins finely cream-coloured, with deep velvety brown spots palely edged, the spots congregating in pairs on each side of the veins; along vein 1a are two pairs of spots before the middle and three pairs beyond the middle, those in the tornus being very small; along vein 2 one pair in the angle, two pairs of small spots about the middle, a large conglomerate spot at the base of veins 3, 4, and 5, with two pairs of small spots beyond it along vein 3, one large spot across 4 and 5, with a pair of small ones near the termen of each vein, a large spot across 6 and 7, above which is a small one to the costa, beyond this a subapical patch of four spots, with a series of six small spots from the apex ending below vein 6, a small basal spot, a spot near the middle of the cell with a smaller one above it, a large irregular spot at the end of the cell. There is a trace of an orange connecting-line between most of the spots, but it is obscure. Secondary yellow, with a large black spot at the end of the cell, a subterminal irregular series of black spots, with a few spots,



more or less small, between this and the end of the cell; termen below the apex black, with short black invasions of the veins to vein 3.

Expanse, 50 mm.

*Hab.* Biagi, 5000 ft., March.

Type in my collection.

55. *Diacrisia owgarra* spec. nov.

♂. Frons black; head and collar deep cream colour; patagia black, edged with cream; thorax black, with lateral cream stripes; abdomen rose-pink, with a dorsal and lateral row of black spots. Primary pale brownish, with the veins broadly outlined with cream colour; costa black for basal half, with two narrow elongate black dashes, angle of vein of *1b* filled in with black, a median curved broad black band interrupted by the veins; a very oblique broad interrupted blackish expanding band from the apex to near the middle of the inner margin; a large black quadrangular spot at the end of the cell, with another above it; a subapical interrupted wedge-shaped spot confluent with the oblique band; a terminal row of spots below vein 5 to the tornus. Secondary deep rose colour, with a black spot closing the cell, and a broadish irregular postmedian interrupted spotted stripe; apex with black spots.

Expanse, 50 mm.

*Hab.* Owgarra; Biagi.

Type in my collection.

56. *Rhodogastria nigropunctata* spec. nov.

♂. Very similar to *R. crokeri* McL., but the black in the median, apical, and tornal areas is larger and very intense in the primaries; whilst the secondaries are wholly dark grey, not hyaline, except at the extreme base, which is creamy. The underside of the abdomen and the pectus is rosy; the legs are rosy above and black below.

♀. Similar, but browner.

Expanse, 64 mm.

*Hab.* Ekeikei and all other places where we had collections from.

Type in my collection.

57. *Pisara owgarra* spec. nov.

♂. Head whitish; thorax pale grey; abdomen greyish white; both wings white. Primary with the basal third more or less suffused with brownish grey, with a darker band in the middle of the area, a fine median wavy line, a subterminal strongly indented dark grey line edged with white, from whence to the termen the ground colour is grey; termen strongly scalloped with dark grey. Secondary translucent white, slightly greyish toward the apex.

Expanse, 20 to 22 mm.

*Hab.* Owgarra.

Type in my collection.

58. *Celama grisescens* spec. nov.

♂. Head, thorax, and abdomen grey. Primary pale grey, more or less suffused with grizzly darker grey, an obscure antemedian line, a wavy indefinite median

line, a postmedian irregular dark line, with the rest of the area to the termen darker grey, in which is a pale waved subterminal line. Secondary uniform greyish white.

Expanse, 20 mm.

*Hab.* Owingarra.

Type in my collection.

#### 59. *Nola obliqua* spec. nov.

♂. Head white; collar and thorax grey; abdomen grey; thorax and abdomen with a double row of three black spots on the proximal segments. Primary whitish, strongly suffused with grey, a waved antemedian line, postmedian line very oblique from the costa to vein 4, whence it recedes more obliquely basewards. This line is broad brownish grey, with black points on each side; the area between this and the antemedian line is much suffused with grey and dark points and marks; a short dark erect dash above the tornus; termen with black spots; fringe white, spotted with grey. Secondary translucent white.

Expanse, 26 mm.

*Hab.* Owingarra.

Type in my collection.

#### 60. *Nola albescens* spec. nov.

♂. Head and thorax pure white; collar dark grey; palpi grey; abdomen creamy white. Primary pure white, slightly suffused in parts with very fine and very pale grey irrorations; costa with a basal black spot, a sub-basal one, two median and three subapical spots, an obscure waved pale sub-basal line, a waved grey median line, an excurved subcrenulate postmedian pale line, receding rapidly basewards below vein 5, with a short black dash on its curve near the inner margin, a subterminal interrupted serrate line; termen preceded by a row of white dashes between the veins; fringe grey. Secondary translucent white, slightly grey towards the termen.

Expanse, 30 mm.

*Hab.* Owingarra.

Type in my collection.

#### *Parapelosia* gen. nov.

Proboscis developed; palpi minute; antennae with very fine longish cilia. Primary long and narrow, with vein 2 from the cell strongly curved at the base, 3 and 4 stalked on a long stalk, 5 absent, 6, 7, 8, and 9 stalked, 6 from near cell with base curved, 7 and 8 on a long stalk, 9 from just beyond 6, 10 from the cell, 11 anastomosing with 12. Secondary with costa straight; apex acute; termen evenly curved rapidly receding to the anal angle, with vein 2 from beyond the middle of the cell, 3 and 4 coincident, 5 absent, 6 and 7 stalked, anastomosing with 8 to half the cell.

Type: *Parapelosia grisescens* B-B.

#### 61. *Parapelosia grisescens* spec. nov.

♂. Head and thorax chocolate-grey; abdomen paler. Primary grizzly brownish grey, with costa ashy grey for the basal half, dark brownish below it, paler in centre of inner margin, with two short dark dashes above it; veins in discal area darkly

outlined, terminal area darkish, several short dark dashes in the darker areas of the wing. Secondary warm pale slatey grey, paler at base and along inner margin.

Expanse, 25 mm.

*Hab.* Owgarrra.

Type in my collection.

62. *Graphosia phaeocraspis* spec. nov.

♂. Head, thorax, and abdomen milky white. Primary uniform dead white without any mark. Secondary pale greyish; underside of primary dark brownish grey, with lower part of cell and the inner margin white to near tornus.

Expanse, 25 mm.

*Hab.* Dinawa, September.

Type in my collection.

This species is figured by me on Pl. v. fig. 20, *Nov. Zool.* vol. xi. as I in the first instance mistook it for the ♀ of *Scoliacma hamptoni* B-B.

63. *Scoliacma virginea* spec. nov.

♂. Head, thorax, and abdomen snowy white. Primary snowy white, with the inner margin slightly excavated from the middle to the tornus. Secondary highly developed above the cell, snowy white, the costal third tinged with cream; underside with a large patch of androconia in the cell fringed finely and smoothly with cilia below, below which lies a long pencil of deep cream-coloured hairs. Secondary with a large patch of creamy androconia above the cell, having a thick close fringe on the costa.

♀. Normal, entirely snowy white.

Expanse, 34 mm.

*Hab.* Owgarrra; Biagi, 5000 ft., April.

Type in my collection.

64. *Scoliacma pellopis* spec. nov.

♂. Head and thorax pale greyish brown; abdomen ochreous grey. Primary pale uniform greyish brown without any markings. Secondary whitish ochreous, slightly lustrous. The primaries are much affected by androconia in and around the cell on the underside and by a patch above the apex of the cell, whilst the secondaries are considerably distorted by a like cause.

♀. Exactly like the male, but the wings and the neuration are normal.

Expanse: ♂ 37; ♀ 34 mm.

*Hab.* Owgarrra; Biagi, February.

Type in my collection.

65. *Ilema owgarrra* spec. nov.

♂. Head and thorax dull sepia brown interspersed with ochreous; abdomen pale grey. Primary dull sepia brown tinged with chocolate-brown more or less mottled all over with ochreous, more especially along the fold, the costa being narrowly and finely similarly irrorated. Secondary pale greyish, darker in the apical area.

♀. Exactly like the male.

Expanse: ♂ 36; ♀ 40 mm.

*Hab.* Owgarrra.

Type in my collection.

66. *Ilema warringtonella* spec. nov.

♂. Head, collar, and patagia deep cream, the latter fringed with grey; thorax dark sooty grey; abdomen pale grey. Primary dark bronzy grey, with costa pearly white, slightly expanding outwards; tornus to half the termen and half the inner margin pearly-white. Secondary darkish grey, whitish below the cell.

Expanse, 32 mm.

*Hab.* Ougarra.

Type in my collection.

67. *Nacaduba costimacula* spec. nov.

♂. Head and thorax deep velvety crimson-brown; abdomen pale brownish, with pale grey proximal segments; the third abdominal segment emits a long pencil of fine ochreous hairs reaching to the anal tuft. Primary pale pinkish brownish ochreous, with a deep brown velvety spot near the centre of the costa, beyond which the costa is produced into a deep lobe, where the serrate postmedian line rises; a very slight trace of the median line below the costal spot; a small dark dot at the end of the cell; a slightly paler tornal patch. Secondary whitish, ochreous pink in the apical area.

Expanse, 30 mm.

*Hab.* Ougarra.

Type in my collection.

68. *Palaeosia longistriga* spec. nov.

♂. Head pale ochreous; thorax very pale fawn colour, with pale ochreous patagia; abdomen creamy. Primary with the cell filled in with somewhat speckled darkish brown, expanding with the cell nearly up to the termen; below the cell a broad pale straw-coloured stripe, expanding outwards up to the termen; inner margin broadly darkish for the basal half of its length; costa to the cell pale ochreous, somewhat irrorated with greyish; a trace of an oblique postmedian line. Secondary uniform creamy whitish.

Expanse, 43 mm.

*Hab.* Biagi, 5000 ft., April.

Type in my collection.

These two species are nearly allied, but I believe them to be distinct, especially considering the altitudes at which they were taken, combined with the month of capture.

69. *Palaeosia grandis* spec. nov.

♀. Head creamy white; collar and thorax grizzly brown; patagia fringed with creamy white; abdomen creamy white. Primary mottled grizzly brown, with a broad creamy-white stripe along the fold to the middle of the wing; a largish grey spot directly above the end of this stripe. Secondary pale creamy ochreous.

Expanse, 51 mm.

*Hab.* Kebea Range, 3600 ft., July.

Type in my collection.

More material may prove this to be the ♀ of the preceding species.

**Garudinodes** gen. nov.

Palpi minute; proboscis developed; antennae, ♂ bipectinate, with long and short very fine cilia; legs, midtibiae with one pair of spurs, hindtibiae with two pairs of stoutish spurs. Primary with costa strongly arched at a quarter before the apex; termen evenly arched, receding somewhat towards the tornus. Neuration with vein 2 from rather beyond the middle of the cell, 3 and 4 from the angle, 5 absent, 6, 7, 8, and 9 stalked, 7 and 8 near the apex, 9 nearer to 8 than to 6, 10 from near the end of the cell, 11 absent. Secondary with 2 from the lower angle, 3 and 4 on a long stalk, 6 and 7 on a very long stalk, 8 coincident with 7 to half the cell.

Type: *Garudinodes bicolorana* B-B.

70. **Garudinodes bicolorana** spec. nov.

♂. Head white; thorax chocolate-brown, with white patagia; abdomen greyish brown. Primary white, with a broad antemedian pale chocolate-brown band; postmedian area of the same colour to the termen; the termen with an apical white patch; fringes white. Secondary uniform pale brownish.

Expanse, 20 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

**Parascaptia** gen. nov.

Palpi minute; proboscis absent; antennae very finely and minutely bipectinate; wings of even width; costa strongly arched; termen receding to the tornus. Neuration, primary with vein 2 from a little beyond the middle of the cell, curved at the base, 3 and 4 stalked from the angle, 5 absent, 6 from below the upper angle, 7, 8, and 9 stalked, 7 and 8 from near the termen, 9 from well beyond the cell, 10 and 11 free, the latter arched; secondary with vein 2 from well before the angle, 3, 4, 5 and 6 stalked on a long stalk, 8 free at base, then bent to anastomose shortly with 7.

Type: *Parascaptia biplagata* B-B.

71. **Parascaptia biplagata** spec. nov.

♂. Head and collar bright yellow; thorax yellow, striped with crimson; abdomen pale greyish. Primary bright yellow, with the basal half of the purplish red receding basewards towards the costa, the base having a yellow spot on the costa; a large postmedian patch of purplish red right across the wing, leaving the termen bright yellow. Secondary clear semihyaline yellowish white.

Expanse, 16 mm.

*Hab.* Babooni, 3000 ft., September.

Type in my collection.

72. **Chionaema biagi** spec. nov.

♂. Head and thorax brownish; abdomen grey. Primary pale brownish grey, with base darker, margined by a dark grey line; the latter half of the median area and the postmedian area dark brownish grey all across the wing, the area beyond the cell being extended farther out than the costal and inner marginal areas, the

rest of the wing pale greyish, with a trace of a darker subapical patch extending to the tornus in an obscure line. Secondary dirty grey.

Expanse, 24 mm.

*Hab.* Biagi, Mambaré River, January.

Type in my collection.

73. *Azura lutea* spec. nov.

♂. Head and thorax pale yellow; abdomen creamy. Primary clear pale yellow, with a short pale grey crescent on the fold, and another pale grey obscure crescentic mark beyond the cell. Secondary translucent palest lemon-yellow.

Expanse, 22 mm.

*Hab.* Biagi, March, and Owgarra.

Type in my collection.

74. *Azura owgarra* spec. nov.

♂. Head and thorax pale yellow; abdomen creamy yellowish. Primary base clear yellow with a grey basal dot; a broad antemedian dark grey band, followed by an irregular fascia of pale yellow; postmedian and subterminal area entirely dark grey; termen irregular pale yellow; inner margin pale yellow, interrupted by the antemedian band. Secondary clear pale lemon-yellow.

Expanse, 24 mm.

*Hab.* Owgarra.

Type in my collection.

75. *Miltochrista biagi* spec. nov.

♀. Head and thorax vermilion-red; abdomen pinkish ochreous. Primary vermilion-red, with the veins outlined with ochreous, with antemedian, median, postmedian, and subterminal grey lines roughly parallel with each other, excurved, serrate, and broadish; termen with black points; fringe grey. Secondary uniform translucent pinkish.

Expanse, 30 mm.

*Hab.* Biagi, 5000 ft., March.

Type in my collection.

76. *Schistophleps hyalina* spec. nov.

♂. Head and thorax very pale straw colour; abdomen whitish. Primary uniform diaphanous washed-out straw colour, with the least trace of a greyish postmedian line. Secondary diaphanous white, practically without any colour at all.

Expanse, 20 mm.

*Hab.* Owgarra.

Type in my collection.

NOCTUIDAE.

77. *Agrotis kebea* spec. nov.

♂. Head, thorax, and abdomen pale cinnamon-grey. Primary pale cinnamon-grey, brighter than the thorax, with a pale basal slightly oblique line angled at the costa, darkly edged in part; a dentate antemedian line with dentations darkly tipped; orbicular pale, darkly edged laterally; reniform reddish, with a

dark spot ; postmedian line crenulate, slightly produced in the upper radial area, finely and darkly edged internally, with dark points externally ; a dark costal subapical cloud, from whence a reddish subterminal line, palely edged externally and slightly toothed just below the dark cloud, descends to near the tornus ; termen darkly pointed with reddish. Secondary pale pinkish grey.

Expanse, 40 mm.

*Hab.* Kebea Range, 6000 ft., July.

Type in my collection.

This species is near *A. dahlii*.

78. *Agrotis owgarra* spec. nov.

♂. Head and thorax pale pinkish grey ; abdomen grey. Primary pale pinkish grey, with scarcely any marking before the median line ; two sub-basal grey dots in the cell, one beyond the other ; an obscure grey line on the basal side of the obscure reniform ; orbicular just traceable ; an obscure postmedian line, terminal area broadly grey ; fringes pinkish grey. Secondary pale greyish, slightly darker towards the apex and termen.

Expanse, 38 mm.

*Hab.* Owgarra.

Type in my collection.

This species is near *A. rubricilia* Moore.

79. *Caradrina owgarra* spec. nov.

♂. Head grey, interspersed with reddish brown scales, with a large dark central patch ; collar deep velvety purplish brown ; thorax and abdomen pale grey. Primary pale grey, with an antemedial irregular darker grey line, followed by a nearly similar very dark line ; an indefinite waved brownish median line ; orbicular and reniform very finely outlined with blackish ; postmedial dark line irregular, followed by a narrow curved band of dark shading. Secondary whitish.

Expanse, 30 mm.

*Hab.* Owgarra.

Type in my collection.

80. *Leocyma tibiopunctata* spec. nov.

♂ ♀. Palpi white below, ochreous laterally, tipped with black ; fore tibia and tarsi spotted with black ; tibia yellow at its joint with the femora ; tarsi yellow for the three end segments ; both wings pure shining white, with a black point below the apex.

Expanse, 48-50 mm.

*Hab.* Ekeikei, January, February, and July.

Type in my collection.

81. *Leocyma nigropunctata* spec. nov.

♀. Palpi white ; end segment black or strongly tipped with black ; fore tibia and tarsi white, spotted with black ; femora blackish above ; both wings shining white ; termen with black points.

Expanse, 45-49 mm.

*Hab.* Ekeikei, January and February ; Kebea Range, March and April.

Type in my collection.

82. *Gabala margarita* spec. nov.

♂. Head yellow; palpi dark crimson; collar yellow, with crimson hairs, and a snow-white spot on each side, which is edged outside with dark crimson; thorax deep crimson, edged finely more or less with yellow; abdomen creamy white. Primary with costa and termen narrowly yellow; base yellow, more or less suffused with crimson, followed by a large diamond-shaped spot of pearly white; the rest of the wing crimson, with a slightly greyish band adjoining the pearly spot; a short pearly dash over the end of the cell; a small pearly subapical spot, below which is a similar dot. Secondary pale lemon-yellow, shading into white at the base.

Expanse, 30 mm.

*Hab.* Kebea Range, 6000 ft., March and April.

Type in my collection.

83. *Rivula biagi* spec. nov.

♂. Head, thorax, and abdomen creamy. Primary deep cream coloured, without any markings before the obscure reniform, which is darkly spotted; a trace of a pale serrate subterminal line, beyond which to the termen the ground-colour is darker; termen darkly spotted. Secondary pale creamy, darker close to the termen.

Expanse, 20 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

This species will be next *R. crassipes* Turner.

84. *Ramadasa pratti* spec. nov.

♂. Palpi blackish, whitish below; frons barred orange and steel blue; pectus whitish; legs barred orange and steel blue, especially the forelegs; head finely irrorated lilac grey; collar and thorax chestnut-brown, irrorated with slightly darker chestnut-brown; abdomen chrome-yellow, with a small black tuft on the proximal segment. Primary pinkish brown, suffused in parts with purplish; basal half of costa finely orange, edged finely below with pale purple, with five blue-black spots followed by an excurved blue-black line meeting a similar incurved line, which extends to the inner margin beyond its centre, a short black costal dash beyond the excurved line; a pale olive-green crescent at the end of the cell finely edged with white and with a second edging on its costal side with black, which extends over it right into the termen and has a broader blackish line above it from the costa into the termen about vein 6; the area enclosed by these lines and above the crescent mark is olive-green; a velvety dark spot edged outside with tawny is just outside the inner curve of the crescent, and from it a pale lilac line extends in the black lines to the termen; below the velvety spot are two dark small spots; a series of dark subterminal points with two pale lilac spots at the tornus; base of wing finely irrorated with orange. Secondary spotless chrome-yellow.

♀. Like the male, but instead of being chestnut-brown it is lilac-grey.

Expanse: ♂ 58; ♀ 55 mm.

*Hab.* Babooni, September; Dinawa, August.

Type in my collection.



85. *Zophochroa aneliopa* spec. nov.

♂. Head and thorax dark sooty grey; abdomen dirty grey. Primary dark sooty grey, with a trace of an antemedian line crossing a whitish dot; a trace of a postmedian line edged with a whitish dash in the fold; postmedian area slightly paler, a whitish apical spot preceded by a whitish costal dot. Secondary dirty grey.

Expanse, 17 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

This species is near *Z. melanica* Turner.

86. *Gadirtha aroa* spec. nov.

♀. Head and thorax grizzly grey; abdomen ochreous grey. Primary darkish grey, with a dark waved short costal basal dash, an oblique twin antemedian dark line, twice scalloped near the costa, then straight to vein 2; a pale grey patch in the cell; reniform dark grey, with a dark patch at its lower outer extremity, adjoining a large pale grey spot; edging this spot externally is a trace of a fine curved waved postmedian line, an obscure trace of a serrate subterminal line; termen deeply and finely scalloped with blackish; the wings have a mottled appearance, not being smoothly marked. Secondaries ochreous grey, darker grey for the outer half.

Expanse, 48 mm.

*Hab.* Aroa River.

Type in my collection.

I place this species with doubt in this genus, as the thorax has a long central tuft.

87. *Stictoptera swinhoëi* spec. nov.

♂. Head and collar dark brownish grey; patagia paler than the thorax (in some specimens as dark as the thorax); abdomen dark grey. Primary pale ashy grey; base more or less marked with brownish; the twin median dark lines oblique from the costa, then curved outwards and receding from vein 1 to the inner margin; these lines are filled in, and the area surrounding them, with dark brownish grey; postmedian line obscure, serrate, and excurved; a subterminal interrupted row of dark small spots; termen with dark internervular dashes; costa mottled with brown; orbicular and reniform stigmata finely outlined with blackish. Secondary hyaline with costa broadly and termen very broadly dark grey.

♀. Like the male, but the twin median lines and the subterminal row of spots are marked with ochreous spots.

Expanse, 38 mm.

*Hab.* Dinawa, Avola, Kebea Range.

Type in my collection. ♀ unique.

88. *Capotena hamptoni* spec. nov.

♂. Head and thorax dark olive greenish brown; abdomen dark slate-grey. Primary with the costal half pale pinkish buff colour, the lower half darkish lilac-grey; termen pale lavender-grey, a large median olive greenish patch edged with white except on the costa; the patch is oblique as to its internal edge, and

reniform on its external edge, with a small dark spot at the end of the cell ; a dark purplish subterminal dentate line margins internally the pale termen. Secondary dark slate-grey.

♀. Like the male, but paler.

Expanse, 40 mm.

*Hab.* Ekeikei, January to March.

Types in my collection.

#### 89. *Nyctipao aroa* spec. nov.

♂. Head and thorax dark blackish brown ; abdomen dark sooty brown, covered with metallic purplish blue ; both wings dark sooty brown, with a deep metallic purplish blue lustre in certain lights ; no markings visible on either wing, except the large ocellus of the primary, with the least trace of the antemedian line and that across the fold in continuation of the dark edge of the ocellus.

♀. Like the male, but much less dark. Primary with the erect waved and dentate antemedian line distinct ; ocellus distinct, with its inner crescent filled in with tawny, the rest dark, with its outer edge black, extending to the inner edge of the crescent, then descending in a broad twice-scalloped line to the inner margin ; a broad oblique white dash at a quarter from the apex, with the least trace of a large spotted line crossing it at its lower extremity.

Expanse, 100 mm.

*Hab.* Aroa River, October.

Type in my collection.

#### 90. *Hulodes gothica* spec. nov.

♂. Head and thorax pale cinnamon-brown ; abdomen pale greyish. Primary pale cinnamon-brown, with base and termen broadly ochreous ; a basal broadish grey band, antemedian band broad dark grey, ending on the inner margin with a deep velvety brown mark with a circular excision on its outer and lower edge, a median grey band, a trace of two confluent postmedian grey lines, and a subterminal one, outside which is an erect rusty definite stripe, edged with a broad sinuous blackish grey dash from the costa and a less conspicuous one from the tornus ; a large ochreous patch at the end of the cell. The grey bands are all nearly erect and indefinite as to width, and the wing is more or less closely irrorated with dark grey. Secondary greyish, with a dark median grey band, followed by an ochreous one, then a broad dark grey somewhat divided area with a broad ochreous termen ; wing finely irrorated with grey.

Expanse, 86 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

#### *Catephiodes* gen. nov.

Similar to *Catephia*, but palpi, with first and second segments heavily scaled, reaching above the vortex ; third segment smoothly scaled, and long antennae, with a few very fine and minute hairs in both sexes, so fine as to be almost simple ; thorax with collar erected almost to a tuft ; proximal segment of thorax hairy, and with a fan-like spreading tuft ; tibiae with spines, hind tibiae of male with long hairy tufts.

Type : *Catephiodes meeki* B-B.

91. *Catephiodes meeki* spec. nov.

♂. Palpi, head, and thorax dark purplish brown; patagia and collar edged with tawny; abdomen sooty grey. Primary dark purplish brown, with dark velvety lines edged with paler mauve or tawny brown; basal line interrupted; antemedian line angled at the costa, waved below; a dark spot in the cell, succeeded by a dark dash; reniform tawny, below which is a large dark patch edged by a deep velvety line; postmedian line spotted, very strongly excurved in the radial area; a broad tawny waved stripe from the apex to in front of the tornus; radial veins darkly dashed; termen darkly scalloped. Secondary black, with a large pure white patch occupying the basal and median areas.

Expanse, 58 mm.

*Hab.* Aroa River, February.

Type in the Tring Museum.

92. *Hypaetra costiplaga* spec. nov.

♀. Head and thorax cinnamon-brown, finely irrorated with pale greyish; abdomen brownish. Primary cinnamon-brown finely irrorated with pale lilac-grey, a trace of a brown interrupted oblique antemedian line; two wedge-shaped tawny costa spots, one in the middle and one just before the apex; a trace of an interrupted very obscure postmedian line below the first wedge-shaped spot; termen with internervular tawny wedge-shaped dashes. Secondary pale silky brown.

Expanse, 38 mm.

*Hab.* Ekeikei, March.

Type in my collection.

93. *Acantholipes biagi* spec. nov.

♀. Head, thorax, and abdomen dull umber-brown. Primary umber-brown; costa finely ochreous, spotted with blackish; a dark basal < shaped mark; a dark erect median straight band, adjoining which at the costa and on the fold is the excurved postmedian line, an irregular waved subterminal shaded band; termen darkly scalloped. Secondary dark sooty grey, with a darker median line.

Expanse, 25 mm.

*Hab.* Biagi.

Type in my collection.

94. *Acantholipes irrorata* spec. nov.

♂. Head russet-brown; thorax, abdomen, and both wings ochreous grey; wings with a series of grey lines interspersed with russet-brown spots. Primary with the median line excurved and edged finely internally with russet-brown; a russet interrupted mark at the tornus; a very interrupted subterminal dentate row of blackish points; termen with black points. Secondary with the grey bands more distinct than in the primary, with the subterminal row of black points complete as also the terminal row; both wings sparsely irrorated with fine blackish points.

Expanse, 25 mm.

*Hab.* Aroa River.

Type in Tring Museum.

95. *Dahlia melanica* spec. nov.

♂. Head and thorax dark sooty brown; abdomen paler; both wings dark sooty brown. Primary with two small conspicuous white dots in the cell; a trace of a fine irregular interrupted antemedian line; postmedian dark line waved, suberuncate; subterminal line irregularly rippled with a paler external edging; termen with dark points. Secondary with median and postmedian curved dark lines.

Expanse, 26 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

96. *Dahlia ochreana* spec. nov.

♂. Head, thorax, abdomen, and both wings ochreous grey. Primary with a dark costal dash at the base, followed by two dark costal dots, a trace of an oblique antemedian line; median oblique line only visible below the cell, a trace of a dotted postmedian oblique line, a dark dot in the cell; reniform rather darker than ground-colour, a short black waved dash from the apex; subterminal pale line suberuncate, obscure; termen with dark points. Secondary with a paler waved median line; termen broadly greyish, with a trace of a paler subterminal line; termen darkly dotted.

Expanse, 20 mm.

*Hab.* Dinawa, September.

Type in my collection.

97. *Zethes pratti* spec. nov.

♂. Head irrorated fawn colour; thorax and abdomen cinnamon-grey. Primary cinnamon-grey, with a narrow fawn-coloured shading to the costa for two-thirds, in which is a very short pale basal and antemedian dash to the cell; reniform tawny; postmedian line pale, with a darkly spotted internal edging for its upper half, deeply angled at vein 4; edging this line externally on its costal half is a large wedge-shaped tawny patch, the termen and fringe are darkly suffused by its lower part; the wing is irrorated with rough scales, slightly darker than the ground-colour. Secondary pale brownish grey.

♀. Like the male, but with darker irrorations.

Expanse, ♂ 40; ♀ 32 mm.

*Hab.* Dinawa, August and September.

Types in my collection.

98. *Capnodes griseiplaga* spec. nov.

♂. Head greyish; thorax ochreous; abdomen greyish; both wings pinkish ochreous; costa finely dark grey for the basal two-thirds, with two white spots, one before, and a second larger behind its centre; an interrupted antemedian dark spotted grey line; a trace of a similar median line of spots; an excurved serrate postmedian line; a subapical patch of dark grey on the termen, and a similar coloured dash above the tornus; termen with black points, three below the apex being prominent. Secondary with a trace of a median and postmedian

grey line, a large dark grey patch at the anal angle ; termen with fine dark points.

Expanse, 30 mm.

*Hab.* Dinawa, September.

Type in my collection.

**Farara** gen. nov.

♂. Palpi small, scaled, end segment short, not reaching above the vertex ; antennae bipectinate with cilia ; legs smooth ; midtibia with one pair of spurs, hindtibia with two pairs ; thorax and abdomen smoothly haired. Neuration : primary with vein 2 from just beyond the centre of the cell, 3 from before the angle, 4 from the lower angle, 5 from above the angle, 6 from the upper angle, 7, 8, and 9 stalked, the first well beyond the ariole, the latter two near the apex, 10 with a short bar to 7 to form the small ariole, 11 from the middle of the cell, depressed near its centre ; secondary with 3 and 4 from the angle, 5 from above the angle, 6 and 7 from the upper angle. Primary triangular with costa very slightly arched, depressed at the apex ; termen excavated below apex to vein 4, where it is produced outwards, receding below it to the tornus. Secondary fairly full : termen excavated slightly below apex ; truncate near angle.

Type: *Farara pulchra* B-B.

99. **Farara pulchra** spec. nov.

♂. Head pale fawn colour ; thorax pale whitish, ochreous, barred with pale fawn colour ; abdomen pale purplish. Primary pale whitish, ochreous, with three broadish waved basal fawn-coloured lines ; reniform fawn-coloured ; median area below the cell and postmedian area up to the costa mauve colour, with a dark band of shading below the angle of vein 3 ; subterminal double line strongly scalloped three times, the two costal scallops being about half the size of the lowest one, which ends in the tornus. This latter portion of the lines is deep purple, a trace of a line of darker interrupted shading between this and the termen, which is darkly edged except about vein 4. Secondary purple up to the postmedian highly scalloped line, which is edged externally with pale fawn, and has a pale fawn subapical waved dash extending into a fine subterminal line in the pale terminal area ; termen with a small triangular purple spot at the anal angle.

Expanse, 32 mm.

*Hab.* Dinawa, August.

Type in my collection.

100. **Iluza aroa** spec. nov.

♂. Head and thorax greyish tawny ; abdomen darker. Primary greyish tawny brown, with a tawny very oblique stripe from the costa near the apex to the inner margin at a quarter from the base ; a similar coloured scalloped strip from the apex to the inner margin nearer the tornus, followed by a second finer stripe into the tornus ; a pale stripe in the cell, and a pale interrupted tornal patch on the termen ; termen darkly dotted, and produced into an angle at vein 4. Secondary brownish grey.

Expanse, 42 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

**Paralopha** gen. nov.

Palpi smoothly scaled, erectly upturned, second segment reaching to the vertex, end segment long, almost naked; antennae of female simple; thorax roughly scaled; abdomen smoothly scaled, with dorsal tufts on the three proximal segments; legs very slightly hairy. Neuration: primary with vein 3 from before the lower angle, 4 from the angle, 5 from well above the angle, 6 from the upper angle, 7 from the tip of the ariole stalked with 8 and 9—these two latter on a long stalk, and anastomosing with 10 to form the ariole; secondary with cell unusually short, only a quarter of the wing; veins 3 and 4 from close to the angle, 5 from well above the angle, 6 and 7 from the upper angle. Primary with costa very slightly and evenly arched; apex rounded; termen slightly produced to an angle about vein 4, and slightly excavated below it; inner margin produced into a tuft near tornus, then slightly excavated and produced into a rounded shoulder, receding rapidly to the base. Secondary small; costa somewhat straight; termen rapidly rounded off, giving a narrow appearance.

Type: *Paralopha rubiginea* B-B.

101. **Paralopha rubiginea** spec. nov.

♀. Head and thorax purplish brown; abdomen dark grey, with slate-grey tufts. Primary rufous, with a trace of pale ochreous basal and median lines, with a large pale grey median patch mottled with reddish, a dark red spot on the costa near the dark greyish reniform; a much interrupted pale ochreous subterminal line; the wing has a rough and mottled appearance. Secondary pale grey, darker towards the termen.

Expanse, 42 mm.

*Hab.* Ougarra.

Type in my collection.

102. **Ilyrgis brunneata**.

♂. Head, thorax, and abdomen greyish brown. Primary pale greyish brown, with a fine antemedian and postmedian strongly serrated and irregular line, each rising in a short oblique white costal dash, the interspace being more or less olive-brown; a dark olive-brown costal patch, edged externally by an erect white dash, from which descends a fine obscure subterminal line; termen darkly dotted; fringe whitish in the subapical excavation and between veins 1*b* and 4. Secondary greyish, with a dark irregular median line with an external edging of lighter shading, and a short subterminal pale line from vein 6 to the tornus.

Expanse, 20 mm.

*Hab.* Biagi (Mambaré River); Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

**Parilyrgis** gen. nov.

Differs from *Ilyrgis* in that the palpi are sickle-shaped, the second segment reaching well above the vertex of the head; the third segment is long and fringed with long hair; hindwing with vein 3 from just before the angle, 4 from the angle, 5 from just above the angle.

Type: *Parilyrgis concolor* B-B.

103. *Parilyrgis concolor* spec. nov.

♂. Palpi and head whitish; mesothorax cream colour; thorax, patagia, and abdomen pale ochreous brownish. Primary pale ochreous brownish, with darker very irregular, somewhat scalloped median, postmedian, and subterminal lines, arising in a creamy costal dash, and having several creamy points; termen finely dark, with dark indefinite small internervular spots; fringes creamy below the apex, dark and intersected below vein 5. Secondary pale greyish, with a dark median and a pale postmedian line.

Expanse, 26 mm.

*Hab.* Dinawa, August; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

104. *Simplicia medioangulata* spec. nov.

♀. Palpi, head, thorax, abdomen, and primary uniform dark dull brown. Primary with an inwardly oblique straight dark sub-basal line, a finer dark postmedian line, strongly angled outwardly beyond the cell, an obscure dark spot terminating the cell, a subterminal inwardly oblique dark line edged finely externally with a fine pale line; termen finely pale, preceded by internervular dark points. Secondary slightly paler than the primary, with a short dark median line, postmedian line dark, edged externally with a fine pale line angled below vein 2.

Expanse, 31 mm.

*Hab.* Dinawa, August.

Type in my collection.

105. *Simplicia aroa* spec. nov.

♀. Similar in general colour to *medioangulata* B-B., but not so dark, whilst the basal line is nearly crenulate and outwardly oblique; the postmedian line is very slightly angled; the subterminal line is represented by a fine cream-coloured line, with the dark inner line practically obsolete, this difference being also carried out in the secondary, whilst it has no angle below vein 2.

Expanse, 32 mm.

*Hab.* Aroa River, February.

Type in my collection.

106. *Simplicia trilineata* spec. nov.

♀. Palpi, head, thorax, and abdomen pale ochreous dirty grey. Primary very pale ochreous, with costa finely dark; antemedian, median, and postmedian lines dark, roughly parallel; the antemedian line very fine, median broader, postmedian still broader, and somewhat curved from this line to the termen suffused with dark grey; termen finely dark. Secondary pale clear yellowish-white, with the postmedian darkish line angled at vein 2.

Expanse, 30 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

107. *Simplicia trilinea* spec. nov.

♂. Head, thorax, abdomen and primary uniform dull cinnamon-brown, with an oblique waved fine antemedian line; postmedian line excurved beyond the cell; cell

closed by an obscure dash ; subterminal line slightly incurved, with the area beyond pale ochreous. Secondary pale ochreous brown, darker near the angled pale subterminal line, beyond which the terminal area is pale ochreous. The three pairs of legs have the tibiae covered with masses of flocculent long hairs.

♀. Like the male, but darker and without the hairy legs.

Expanse, type specimen, 50 mm.

*Hab.* Dinawa, and all other localities.

Type in my collection.

The species varies considerably in size.

#### 108. *Libisosa floccosa* spec. nov.

♂. Head, thorax, abdomen, and both wings greyish brown. In addition to the fore tibiae, the mid tibiae have a great mass of flocculent scales, and the hind femora have a large pencil of long hairs. Primary with a fine blackish irregular serrated line, a dark small spot in the cell, and a fine serrate dark postmedian line excurved just below the costa; an oblique pale subterminal line; termen darkly dotted. Secondary with a darkish obscure dot in the cell, an oblique subserrate postmedian line, a pale angled subterminal line; termen finely ochreous, darkly dotted.

Expanse: ♂ 52; ♀ 40 mm.

*Hab.* Babooni and Ekeikei.

Types in my collection.

#### *Squamipalpis* gen. nov.

Palpi sickle-shaped throughout, very roughly and coarsely scaled to the extremity; second segment reaching well above the vertex, third segment long; antennae of male fine, very finely and minutely ciliate, and with paired fine bristles; thorax coarsely scaled; abdomen smooth; legs smoothly scaled, not hairy. Neuration: males with a large costal fold, occupying nearly all of the cell of the primary, and ending well beyond its end, vein 3 from below the lower angle, 4 from the angle, 5 from just above the angle, 6 from the upper angle, 7 from directly below the end of the ariole, which is just visible in the male, and well developed in the female, 8 and 9 forked, 10 and 11 from the aborted costal vein in the male, in the female 9 anastomoses with 10 to form the ariole; secondary 3 and 4 from the lower angle, 5 from directly above the angle, 6 and 7 from the upper angle; costa straight, depressed near the apex, which is very acute, almost falcate; termen excurved at veins 3 to 5; secondary long, slightly excavated below the apex; termen cut off straightish from vein 2; inner margin very short.

Type: *Squamipalpis unilineata* B-B.

#### 109. *Squamipalpis unilineata* spec. nov.

♂. Palpi tawny brown; thorax and abdomen tawny grey; both wings pale tawny ochreous; primary with a trace of a fine dark serrate sub-basal line, a broad straight inwardly oblique dark median line edged externally with whitish; reniform chestnut colour; a trace of an interrupted somewhat crenulate postmedian line excurved beyond the cell; a subcrenulate anteterminal darkly dotted line palely edged externally, irregular and excurved about veins 7 and 8, and again about



vein 5; termen with dark points; secondary with the oblique median lines and the subterminal line of the primary carried through.

♀. Like the male, but without the oblique lines, with the reniform stigma, and the subterminal line darker.

Expanse: ♂ 33; ♀ 30 mm.

*Hab.* Dinawa, September; Aroa River, February and March.

Type in my collection; other specimens in the Tring Museum.

110. *Badiza albopunctata* spec. nov.

♂. Head, thorax, abdomen, and both wings olive-brown. Primary with the antemedian fine line, indistinct, oblique, and dentate, a white point followed by a white spot in the cell; postmedian line irregular, serrate, receding at the costa and inner margin; subterminal line irregular, marked out by white dots; termen darkly spotted. Secondary with median line irregular, postmedian line marked out by white points.

Expanse, 33 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

111. *Pseudoglossa novoguineana* spec. nov.

♂. Palpi dark chocolate-brown; thorax cinnamon-brown; abdomen greyish brown. Primary greyish brown, with a pinkish suffusion, especially in the postmedian and terminal areas; sub-basal darker line interrupted; postmedian dark line edged externally with whitish, excurved beyond the cell, slightly incurved on the fold; a trace of a pale subterminal line; termen darkly dotted; reniform with two dark dots. Secondary uniform greyish brown.

♀. Like the male, but the lines are more defined.

Expanse, ♂ and ♀ 36 mm.

*Hab.* Dinawa, September; Kebea Range, May and June.

Type in my collection.

112. *Bleptina bifurcata* spec. nov.

♂. Head, thorax, and abdomen umber-brown. Primaries umber-brown, with a pale creamy line bisecting the cell longitudinally and bifurcated at the end of the cell along veins 3 and 4 to the termen; a basal short scalloped creamy line; an erect sub-basal stripe; a strongly angled postmedian line, the angle occurring between veins 3 and 4; an irregular subterminal line internally edging a small pale apical patch; a creamy dash closes the cell, and is preceded by a creamy dot in the cell. Secondary uniform greyish brown, with an indefinite median and a pale crenulate postmedian line.

Expanse, 38 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

This species is nearly allied to *B. albivenata* Leech.

113. *Bleptina serratula* spec. nov.

♂. Head and thorax fawn-brown, irrorated with dark grey; abdomen darkish grey. Primary pale fawn-brown, with a dark basal line; a dark, somewhat oblique,

internally serrate sub-basal line; a median black band, broad at the costa and in the cell, but narrow at the upper margin of the cell, descending in an angled line below the cell to the margin; postmedian line fine, strongly serrate, projected outwards beyond the cell; subterminal line fine, interrupted, dentate, rising in a black costal patch; termen with fine dark scallops; reniform palely marked out except on its outer side.

Secondary uniform pale ochreous grey, with a pale median band.

Expanse, 40 mm.

*Hab.* Mount Kebea, July.

Type in my collection.

#### 114. *Bleptina albonotata* spec. nov.

♂. Head, thorax, and abdomen greyish brown; both wings pinkish brown, with a short curved dark basal line, edged palely externally; two white crescents in the cell; a median curved band of dark shading; an oblique white fine dash at two-thirds of the costa; a broad indefinite band of dark postmedian shading; termen with dark internervular dashes edged externally with white. Secondaries with an indefinite median band of dark shading; a pale postmedian fine line, beyond which the terminal area is dark.

Expanse, 30 mm.

*Hab.* Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

#### *Aneliopsis* gen. nov.

Palpi long, recurved; second segment reaching well over vertex, heavily fringed; third segment with a tuft on the inner side; antennae of male bipectinate with cilia, the termination of the pectinations being a longish simple spine; in the female the bipectination is very fine, and shorter; thorax roughly scaled and tufted; legs, fore- and midtibiae thickly haired, the latter with one pair of spurs; hindlegs smoothly scaled; tibiae with two pairs of long spurs; both wings broad and ample. Primary with costa slightly arched; termen evenly excurved. Secondaries full, long, depressed at anal angle. Neuration: primary with vein 3 before the angle, 4 from the angle, 5 from directly above the angle, 6 from the upper angle, 7, 8, 9, and 10 stalked. Secondaries with veins 3 and 4 stalked, 5 from directly above the angle, 6 and 7 from the upper angle.

Type: *Aneliopsis alampeta* B-B.

#### 115. *Aneliopsis alampeta* spec. nov.

♂. Palpi, head, and thorax dark bronzy brown; abdomen pale greyish brown. Primary darkish umber-brown; a short blackish basal line; sub-basal line broadly dentate, with a paler internal edging; median blackish line very irregular, acutely internally angled about vein 6; postmedian dark line irregular, roughly parallel with the median line and palely edged; a terminal row of small spear-head dashes. Secondary uniform greyish brown.

♀. Like the male, but smaller, paler, and all the black lines much less prominent.

Expanse: ♂ 46; ♀ 34 mm.

*Hab.* Owarra; Dinawa, August.

Types in my collection.

116. *Aneliopsis albipuncta* spec. nov.

♀. Head and thorax greyish brown; abdomen paler. Primary pale brown, somewhat irrorated finely with darker brown; a short, fine blackish basal line; sub-basal line fine, irregular; postmedian line very irregular, receding to costa and inner margin; subterminal line dentate, pale, edged internally with a series of blackish spots or short dashes; termen darkly dotted; a whitish spot in the cell beyond the sub-basal line, followed by a blackish one, with a few whitish scales in it. Secondary uniform pale greyish brown.

Expanse, 38 mm.

*Hab.* Ougarra.

Type in my collection.

117. *Aneliopsis adelpha* spec. nov.

♀. Head and thorax ochreous brown; abdomen paler. Primary darkish brown, closely irrorated with ochreous up to the postmedian line, and less so in the terminal area; basal dark line roughly describing three-quarters of an irregular circle; sub-basal line indistinct, produced outwards on the fold; postmedian line serrate, produced forwards beyond the cell, palely edged externally; subterminal line ochreous, with a dark edging between it and the postmedian line; termen dotted with ochreous, with an internal, almost scalloped, blackish edging. Secondary pale greyish, with a trace of a short line at the anal angle; termen dotted with ochreous, with a scalloped fine internal line.

Expanse, 34 mm.

*Hab.* Dinawa, August.

Type in my collection.

118. *Aneliopsis trilineata* spec. nov.

♂. Head and thorax darkish brown; abdomen grey. Primary olive-brown, with an indistinct ochreous basal line; antemedian, postmedian, and subterminal lines ochreous, serrated, edged slightly with black; two black spots in the cell; termen with small dark spear-head spots. Secondary uniform pale dirty greyish.

♀. Like the male, but darker purpler brown, with the antemedian and subterminal line without serrations.

Expanse: ♂ 46; ♀ 48 mm.

*Hab.* Dinawa, July.

Type in my collection.

*Cristatopalpus* gen. nov.

♂. Palpi with second segment reaching above the vertex, fringed with very long hair; third segment with a large expanding tuft; antennae bipectinate; eyes with thick long lashes, especially below; legs, fore with femora and tibiae having long heavy tufts of hair; midtibiae smoothly haired; hindtibiae densely scaled, and having a flat pad of longish blackish hairs on the outer side, outside which is a long spreading fan-like tuft of fine hairs from the femoral joint. Neuration, vein 2 from near the middle of the cell, 3 and 4 from the lower angle, 5 from just above the angle, 6 from below the upper angle, ariole small, 7 from near the end of the ariole, 8, 9, and 10 stalked on a long stalk from the end of the ariole; secondary with 3 and 4 stalked, 5 from just above the angle, 6 and 7 from the

angle. Primary with costa straight, with an expandible tuft from near the base ; termen evenly rounded ; wings broad ; secondary with wings ample.

Type : *Cristatopalpus olivens* B-B.

#### 119. *Cristatopalpus olivens* spec. nov.

♂. Head and thorax olivaceous greyish brown ; abdomen olive-grey. Primary pale olive-brown, with a blackish basal spot ; an irregular sub-basal pale line darker edged on each side, with a blackish <- shaped internal mark on the inner margin ; a pale dot in the cell, with two pale small spots at the end of the cell ; postmedian line irregular, serrate, receding at the costa and inner margin ; subterminal line very irregular, with a dark costal internal filling between it and the postmedian line ; terminal area paler, with a blackish patch between veins 4 and 5 ; termen with a fine crenulate dark line ; fringes darkly intersected. Secondaries olive-grey, with a median and postmedian pale line darkly edged, and darkly filled in between a very fine crenulate terminal line.

Expanse, 41 mm.

*Hab.* Mount Kebea, July, and Dinawa, September.

Type in my collection.

#### *Systaticospora* gen. nov.

♀. Palpi with tufts on the back of the second and third segments ; second segment long, reaching far above the vertex ; third long, curved backwards ; antennae with fine short hairs ; patagia raised into lateral thoracic tufts. Neuration, primary with veins 2 and 3 from before the angle, 4 and 5 from about the angle, 6 from just below the angle, 7, 8, and 9 stalked, 7 on a short one, 8 and 9 on a long stalk, 9 and 10 from the cell ; secondary with veins 3, 4, and 5 from the angle, 6 and 7 from the upper angle. Both wings broad and ample. Primary with costa slightly arched, depressed near apex ; termen evenly rounded.

It is not ordinarily advisable to describe a genus from one sex, and especially the female ; but this is so evidently new that I cannot do otherwise.

Type : *Systaticospora orphnina* B-B.

#### 120. *Systaticospora orphnina* spec. nov.

♀. Head, thorax, and abdomen blackish brown. Primary dark olive-brown, thickly irrorated with blackish ; a basal and sub-basal interrupted black line ; a small black spot in the cell, with a minute white pupil ; reniform outlined with black, with pale internal dash ; postmedian line black, strongly serrate ; subterminal line ochreous, edged with black on each side, with a black patch about veins 6 and 7 ; termen dotted with ochreous, with internal black scallops. Secondary uniform dark greyish brown, with a fine black scalloped termen.

Expanse, 60 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

#### *Megaloptera* gen. nov.

♂. Palpi with second segment long, recurved over the head, thickly but smoothly scaled ; third joint of moderate size, scaled ; antennae bipectinate ; legs, with all the femora, having a large spreading fringe of hair on each side ; tibia smoothly scaled ; thorax with patagial crests formed of long fine straight hairs,

combined with shorter heavy spatulate scales. Neuration, primaries with vein 3 from before the angle, 4 from the angle, 5 from well above the angle, 6 and 7 forked on a short stalk, 8, 9, 10, and 11 free from the cell; cell short, broad, with a spurious cell at its upper apex formed by a short bar to near the middle of the discocellulars, the end of which has a deep pit corresponding with the heavy tuft of androconia on the upper side; secondaries, cell very short, veins 3 and 4 from the lower angle, 5 from just above, 6 and 7 from the upper angle, 8 free from the base.

Type: *Megaloptera lophota* B-B.

121. *Megaloptera lophota* spec. nov.

♂. Head, thorax, and primary uniform bronzy brown; abdomen and secondaries uniform brown as the primary, but lacking the bronzy lustre. The cell of the primary is filled with reversed androconial hairs, and at the end of the cell there is a raised tuft of similar hairs, but heavily spatulate at the tips; termen spotted with ochreons at the veins, and having a preceding dark scalloped edging; a similar edging is just traceable in the secondary.

Expanse, 71 mm.

*Hab.* Kebea Range, July; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

122. *Mastigophorus(?) dinawa* spec. nov.

Head, thorax, and abdomen dark slate-brown; both wings dark slate-grey, with a trace of a blackish antemedian line; reniform blackish palely edged; a trace of an indefinite median line; postmedian line blackish, excurved and waved; from this line to the termen the wing is darker and has a few scattered lavender scales on it. Secondary with a dark median line palely edged externally, and a trace of a subterminal paler line; lavender scales scattered sparingly over the wing.

Expanse, 28 mm.

*Hab.* Dinawa, September.

Type in my collection.

123. *Mastigophorus olivens* spec. nov.

♂. Palpi, head, thorax, and abdomen olive-grey, the two latter spotted with black; both wings olive-grey, with black markings. Primary with four costal spots, one near the base, two before the centre, one beyond it, a short dash in the cell; antemedian spotted line interrupted, meeting the double oblique interrupted median line on the inner margin; postmedian line serrate, incurved below vein 3, irregular, with a pale external edging; subterminal line irregular and interrupted; termen finely scalloped. Secondary, with two inner-marginal dark small patches, between which is the irregular median line, outside the lower patch is the double postmedian spotted line; termen darkly scalloped.

Expanse, 28 mm.

*Hab.* Dinawa, September.

Type in my collection.

124. *Mastigophorus biagi* spec. nov.

♂. Palpi, head, and thorax dark reddish brown; abdomen paler. Primary dark reddish brown, of a dark rusty tone, with a pale grey irregular antemedian

line; postmedian line pale grey, irregular, subcrenulate, projected outwards beyond the cell, receding on the fold; a trace of a pale grey irregular dentate subterminal line; termen narrowly black, with white dots; a whitish spot at the reniform. Secondary grey, with a median and postmedian pale grey line; termen dotted with whitish.

Expanse, 26 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

#### 125. *Rejectaria albolineata* spec. nov.

♂. Head, thorax, palpi, abdomen, and both wings dirty greyish brown; both wings without any mark except that there is in both a subterminal, narrow, straightish white line.

Expanse, 38 mm.

*Hab.* Aroa River, February.

Type in the Tring Museum.

#### *Insolentialpalpus* gen. nov.

♂. First segment of palpi long, reaching to the vertex, long and heavily scaled; second segment long, roughly scaled, scales shorter, curved over the head; third segment moderately long, with a tuft of hairs on the inner side; antennae bipectinate; legs long, smoothly scaled. Neuration, primary with vein 2 from the centre of the cell, 3 in front of the angle, 4 from the angle, 5 from just above the angle, 8 and 9 stalked from 7 before the end of the ariole, connected with 10 by a short bar to form the ariole, 11 from the cell at a third from the base; secondary, 2 from the centre of the cell, 3 and 4 from the angle, 5 from directly above the angle, 6 and 7 from the upper angle; wings, costa slightly arched, depressed at the apex; termen evenly curved; primary broad, expanding rapidly outwards; secondary long, fairly ample.

Type: *Insolentialpalpus ochreopunctata* B-B.

#### 126. *Insolentialpalpus ochreopunctata* spec. nov.

♂. Head, palpi, and abdomen olive-grey; end segment of palpi with a tuft of fine white hairs. Primary olive-grey, with a basal black interrupted line; an irregular antemedian black line; median line obliquely confluent with the dark reniform, below which it is serrate; postmedian line serrate, receding at the costa, with a fine pale external edging; subterminal dark line serrate, dotted with ochreous externally, finely dashed with ochreous at the termen, the dashes being edged internally with black spear-head marks. The reniform is palely edged and dotted externally with ochreous; secondary grey, darker for the outer half; a median dark line to the cell; postmedian line excurved and serrate; subterminal line pale at the tornus, faintly traceable above; termen with ochreous dashes between the veins, spotted internally with black; fringes to both wings, tessellated ochreous and dark grey.

Expanse, 29-30 mm.

*Hab.* Owarra.

Type in my collection.

127. *Falcimala aurea* spec. nov.

♂. Palpi, head, and thorax greenish olive-brown; abdomen pale ochraceous grey. Primary greenish olive-brown, spotted with pale metallic gold; a largish spot at the base of the inner margin, with a second beyond the middle, between which nearer the basal spot is another; a spot at the end of the cell; two spots below each other in the postmedian area, with one or two dots below the second; a terminal series of small spots: all these spots are very irregular in shape and size; fringes goldenish, darkly intersected; secondary uniform pale rose-colour with ochreous fringes.

Expanse, 20 mm.

*Hab.* Biagi, Mambaré River; Milne Bay.

Type in my collection; a single specimen in the British Museum from Milne Bay.

128. *Falcimala brunneistriga* spec. nov.

♂. Head, thorax, and abdomen pale brownish; terminal segments of the latter smoky. Primary pale brownish, with an erect dark antemedial line edged externally with whitish; median pale line angled outside the reniform, which is faintly traceable (in my somewhat rubbed specimen); subterminal pale line interrupted and obscure below vein 4, with dark dashes between the veins. Secondary straw-yellow, with a very broad greyish-brown termen, in which is a subterminal yellowish line.

Expanse, 23 mm.

*Hab.* Dinawa, August; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

*Ceiodiastrophon* gen. nov.

Palpi scaled, upturned; second segment long, above the vertex; third segment long, with a slight pencil of hairs on the inner side; antennae with very short fine cilia, with evenly interspersed longer, very fine hairs. Legs, fore heavily clothed with hair, mid and hind naked. Neuration, cells short; primary veins 4 and 5 from the lower angle, 6 and 7 from the upper angle, 8, 9 and 10 stalked on a long stalk; secondary with 3 and 4 and 6 and 7 from the lower and upper angles, 5 from directly above the lower angle. In the ♂ a heavy tuft of hair on the fold of the primary near the base, the base of costa produced into a short sharp shoulder with a tuft on its underside.

Type: *Ceiodiastrophon brunneum* B-B.

129. *Ceiodiastrophon brunneum* spec. nov.

♂. Head, thorax, and abdomen darkish brown. Primary entirely uniform dark brown, without any marks at all except two white points in the cell, one near the base and the other slightly larger at the end. Secondary slightly paler brown than in the primary, with the area above vein 6 pale greyish.

Expanse, 36 mm.

*Hab.* Dinawa, September.

Type in my collection.

130 *Hydrillodes aroa* spec. nov.

♂. Head, thorax, and abdomen purplish brown. Primary pale ochreous brown, with basal line broadly chocolate-brown; reniform chocolate-brown; postmedial line clear pale cream colour, with an outward curve beyond the cell and an inward curve on the fold: beyond this line the whole of the area is chocolate-brown, with a short oblique curved line to the costa before the apex and a trace of a subterminal row of pale spots. Secondary ochreous fawn colour, with a median and postmedian dusting of purplish brown; a slight dark fold along vein 1*b*; termen dark, with ochreous fringes.

Expanse, 26 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

131. *Hydrillodes emmelodes* spec. nov.

♂. Palpi, head, and thorax sooty grey; the third segment of the palpi is covered with a long pencil of fine hairs; abdomen brownish; both wings lavender-grey up to the oblique postmedial line, beyond which the colour is bronzy brown, shading into lavender-grey near the termen. Primary with a dark basal line, and an oblique dark cloudy median line; cell closed by a subhyaline oval dash; secondary with a dark oblique cloudy median line; a subterminal irregular row of five ochreous points; termen of both wings finely dark.

Expanse, 38 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

132. *Hydrillodes mediochracea* spec. nov.

♂. Head and palpi dirty ochraceous; thorax purplish brown; abdomen brown. Primary with base purplish brown, sharply terminated in an erect oblique line; median area dirty ochraceous, terminating in a postmedial pure ochraceous line, with a small acute angle at the lower angle of the cell; the rest of the wing dark purplish brown, with a more or less distinct spotted ochreous subterminal line with a small pale inward spot about vein 6 and a large one near the tornus; termen with fine black dashes; a dark dot at the reniform. Secondary uniform brownish grey, with a dark spot closing the cell.

Expanse: ♂ 34; ♀ 36 mm.

*Hab.* Kebea Range, March and April, also June and July; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

The ♂ of this species has a tuft of curved hairs on the underside of the secondaries along vein 4 beyond the cell.

133. *Hydrillodes funerea* spec. nov.

♀. Palpi, head, and thorax dark purplish brown; abdomen somewhat paler. Primary with base dusky ochraceous, terminating irregularly with a projection between the lower margin of the cell and vein 1*b*; the whole of the rest of the wing dark purplish brown, with a trace of an outwardly oblique irregular dentate postmedian line, and a similar waved subterminal line rising in a small costal



whitish patch ; termen with a fine pale line, preceded by a series of blackish small lunular spots. Secondary uniform darkish grey.

Expanse, 32 mm.

*Hab.* Kebea Range, July.

Type in my collection.

134. *Hydrillodes subalbida* spec. nov.

♀. Palpi, head, thorax, and abdomen dark russet-brown. Primary with the basal three-fifths rusty brown, the outer two-fifths dark purplish brown ; the former terminates with a paler rusty brown crenulate line, edged internally with a very fine darker crenulate line ; a trace of an irregular antemedian line ; a dark spot in the reniform, a series of subterminal white points. Secondary with the basal three-quarters white, and a white irregular line in the brownish terminal quarter rising from the tornus.

Expanse, 34 mm.

*Hab.* Dinawa, September.

Type in my collection.

135. *Echana meeki* spec. nov.

♂. Head, palpi, and thorax bronzy brown. Primary uniform dark brown, with a deep hairy pit beyond the cell up to the costa, outside which is a deep oblique fold into the tornus ; this fold assumes the form of a deep ridge exactly as if a piece of cotton had been drawn across the wing into a groove and the wing membrane had partially closed over it ; a broad patch of androconia below the cell. Secondary uniform brownish grey, the terminal third covered with somewhat shining short androconia.

Expanse, 44 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

136. *Echana dinawa* spec. nov.

♂. Head, palpi, and thorax cinnamon-brown ; abdomen greyish. Primary cinnamon-brown, with a trace of an antemedian oblique line ; median line angled outwards in the cell ; an obscure trace of a postmedian line ; termen darkly dotted ; fold distorted with a mass of grey scales and hairs below the end of the cell. Secondary uniform pale brownish with a small tuft of darker hairs in the cell.

♀. Like the male, but the primary without the distortion of the fold and the accompanying tuft ; basal line erect and irregularly waved ; two dark dots in the cell.

Both sexes beneath are alike, the secondary having one longish dark dot in the cell, with a median and postmedian irregular curved line.

Expanse, ♂ and ♀ 37-38 mm.

*Hab.* Dinawa, August and September.

Type in my collection.

137. *Echana owgarra* spec. nov.

♂. Head, palpi, thorax, and abdomen brownish grey. Primary ochreous grey, with a fine very oblique black basal line, an angled black median line lost in the contortion and scales of the fold, a trace of a postmedian line arising in a pale costal

dash ; termen very strongly arched with prominent black spots. Secondary very pale greyish, with a pencil of fine hairs along the centre of the cell and a patch of fine slightly shining androconia beyond it between veins 2 and 5 ; underside with a small spot, followed by a large one in the cell, with a median and postmedian line.

Expanse, 40 mm.

*Hab.* Owgarrar, Upper Aroa River.

Type in my collection.

138. *Echana nigra* spec. nov.

♂. Head, palpi, thorax, and abdomen blackish ; thorax barred with rusty brown. Primary black, with a basal, median, and postmedian white costal spot, the two latter being the origin of their respective lines, which, however, are almost quite obscured ; reniform marked by a deep black spot ; termen strongly arched and dotted with deep black. Secondary dark grey, with an ochreous pale grey pencil along the cell, followed by a patch of pale grey androconia.

Expanse, 39 mm.

*Hab.* Owgarrar, Aroa River, March.

Type in my collection, a ♀ in the Tring Museum.

139. *Echana kebea* spec. nov.

Section with costal fold at end of cell.

♂. Head and thorax pale chocolate-brown. Primary pale chocolate-brown, with a trace of a basal line, a pale serrate median line below the costal fold, and a fine dentate pale subterminal line. Secondary whitish, somewhat hyaline, pale pinkish brown at the apex and termen, tapering rapidly to vein 2.

Expanse, 42 mm.

*Hab.* Kebea Range, June.

Type in my collection.

*Echanella* gen. nov.

♂. Antennae with a swelling and small tuft at a third from the base ; palpi strongly curved backwards, with second segment long well over the head ; third segment moderate, both thickly scaled ; legs, fore with femora heavily scaled ; a tuft of hairs at the tarsal joint ; mid and hind smoothly scaled. A strong contortion at the end of the cell affecting the wing right across ; a fine basal costal fold. Nervation, primary with veins 3 and 4 from the angle, 5 from just above the angle, 6 from near the middle of the discocellulars, 7, 8, 9, and 10 stalked, 11 short, converging into 12, which (latter) is waved and contorted ; secondary, cell short, veins 3 and 4 and 6 and 7 stalked, 5 from just above the angle.

Type : *Echanella purpurea* B-B.

140. *Echanella purpurea* spec. nov.

♂. Head and thorax purplish brown ; abdomen chocolate-grey. Primary dark purplish brown, lustrous in the contorted area ; base fawn-brown, terminating irregularly with a strong acute angle along the lower margin of the cell ; postmedian fawn line fine from below the costal heavy tuft of scales ; from this tuft a fawn stripe to the termen about vein 7 ; a fine obscure subterminal irregular line rising in

a whitish costal lunular mark ; termen dotted with velvety black. Secondary brownish grey.

Expanse, 36 mm.

*Hab.* Dinawa, September ; Aroa River.

Type in my collection.

#### **Cellacrinata gen. nov.**

♂. Palpi with second segment above vertex ; third segment long, very heavily tufted for three-fifths ; apex curved upwards, naked ; antennae fine with very fine short cilia ; legs, fore with femora tufted, tibiae heavily tufted, mid pair tufted on femora and tibia, hind legs nearly bare, with two pairs of spurs ; wings, primary costa depressed in centre, termen evenly rounded. Neuration, primary with cell very short, veins 3, 4, and 5 stalked, 6, 7, 8, 9, and 10 stalked, 6 from behind the discocellulars, 9 and 10 very short, 11 absent ; secondary with 3 and 4 and 6 and 7 stalked, 5 from just below the middle of the discocellulars. Primary with costa produced into a shoulder at the base, but without any hairs. Secondary with an androconial fold along the cell, beyond which is a thick mass of androconial hairs to half-way towards the termen.

Type : *Cellacrinata grisea* B-B.

#### 141. **Cellacrinata grisea spec. nov.**

♂. Palpi and head ochreous grey ; tuft on third segment rich chocolate-brown ; thorax chocolate-brown ; abdomen greyish. Primary pale ochreous grey, sparingly dusted all over with pale chocolate-brown, except in the terminal area, which is entirely pale chocolate-brown ; an antemedial dark line interrupted at the veins with a paler internal edging ; a dark spot in the reniform ; an ochreous obscure subterminal series of small spots, that on the costa being larger and whitish. Secondary uniform chocolate-grey.

Expanse, 32 mm.

*Hab.* Kebea Range, July.

Type in my collection.

#### **Cheillophota gen. nov.**

♂. Palpi thickly scaled ; first segment long ; second shorter, curved strongly over the head, third segment with a long pencil of fine hairs ; antennae with long bipectinations ; thorax with crested patagia and crested metathorax ; legs nearly bare. Neuration, primary with vein 3 from directly below the angle, 4 and 5 from the angle, 6 from just below the upper angle, 7 stalked with 8 and 10, 9 stalked from 8, a fold lying along and beyond the cell, with tufts of hairs at its extremity, a deep contortion below the cell causing a falcate projection of the inner margin in front of the tornus, androconial hairs on the under surface and a thick covering with terminal tuft on the upper surface ; secondary with veins 3 and 4 also 6 and 7 stalked, 5 from just above the lower angle ; on the upperside a patch of short androconia beyond the cell.

Type : *Cheillophota costistrigata* B-B.

#### 142. **Cheillophota costistrigata spec. nov.**

♂. Palpi and collar dark rusty brown ; terminal pencil ochreous ; thorax dark purplish brown. Primary with a broad pale ochreous costal stripe, dusted with pale

rusty scales ; rest of wing sepia-brown, except the hairs and tuft below the cell, which are purplish brown ; termen darkly spotted. Secondary uniform greyish brown, with a trace of a median waved line ; undersurface of secondary with a dark cell-spot, followed by a waved dark median and postmedian line.

Expanse, 42 mm.

*Hab.* Kebea Range, July.

Type in my collection.

#### **Pseudogyrtonea** gen. nov.

Palpi scaled short, upturned ; second segment not reaching to the vertex ; end segment small, oblique ; antennae minutely ciliate, with longer equally fine hairs ; wings, primary long, narrowish. Neuration, primary, vein 2 from the middle of the cell, 4 from the angle, 5 from close to the angle, 6 from the upper angle, 7, 8 and 9 stalked, 7 nearly midway from the ariole, 8 and 9 close to the apex, 10 from the ariole ; secondary with veins 3 and 4 and 6 and 7 from their respective angles, 5 from below the middle of the discocellulars.

Type : *Pseudogyrtonea fulvane* B-B.

#### 143. **Pseudogyrtonea fulvane** spec. nov.

♂. Head and thorax tawny brown ; abdomen with a greyish tinge. Primary uniform tawny brown, with a trace of an interrupted antemedian line ; a small whitish wedge-shaped spot in the cell, confluent with the pale chestnut reniform ; a trace of an interrupted postmedian spotted line, and a more distinct subterminal line rising in a whitish costal subapical spot ; termen darkly pointed, the points preceded by a pale tawny short dash. Secondary uniform greyish brown.

Expanse, 30 mm.

*Hab.* Dinawa, August and September ; Aroa River, February and March.

Type in my collection ; other specimens in the Tring Museum.

#### 144. **Pseudogyrtonea aroa** spec. nov.

♂. Head and thorax ochreous grey. Primary pale ochreous grey, with an irregular dark brown antemedian line, and a dark waved postmedian line, these two lines being connected below the cell by a dark curved line, above which is a broad lunular pale mark to the costa, enclosing the darkly outlined reniform stigma, which is not reniform but spherical ; a dark fine indefinite line almost adjoining the postmedian ; subterminal waved dark line edged externally by a pale line ; termen darkly edged by a fine scalloped line. Secondary uniform pale greyish.

Expanse, 26 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

#### **Catadoidea** gen. nov.

Palpi sickle-shaped, each of the segments long, of nearly equal length, the second reaching over the top of the head, all roughly scaled ; antennae of male bipectinate, with fine cilia ; pectinations tapering at about two-thirds rapidly up to the tip ; legs almost naked ; midtibiae flattened with a short tuft at the tarsal joint, one pair of spurs ; hindtibiae with two pair of spurs ; those at the tarsal joint minute ; thorax roughly scaled ; patagia slightly raised. Neuration, primary with

vein 3 from before the angle, 4 from the angle, 5 from just above the angle, 6 from below the upper angle; ariole most minute, formed by the anastomosis of 8 and 10, 7 from the end of the ariole, 8, 9 and 10 stalked; secondary with 3 and 4 stalked 5 from directly above the angle, 6 and 7 stalked.

Type: *Catadoides punctata* B-B.

145. *Catadoides punctata* spec. nov.

♂. Head and thorax ochreous, with the scales on the head and collar tipped with brown; both the wings pale ochreous. Primary with a dark dot in the cell, followed by a larger one at the end, touching which internally is a faint trace of an oblique dark line; postmedian line evanescent, dotted, waved; subterminal waved line whitish, preceded by a row of dark dots on its inner margin, and with a faint dark external edging; termen darkly dotted. Secondary with all the markings of the primary repeated, but the median line is distinct, and from the faint postmedian line the outer area has more or less suffusion of pinkish brown scales.

Expanse, 26 mm.

*Hab.* Dinawa, August and September.

Type in my collection.

146. *Nodaria dinawa* spec. nov.

♂. Head, thorax, and abdomen greyish brown; palpi dark brown; legs dark brown. Primary greyish brown, with a trace of a very oblique, strongly serrated basal line; a curved antemedian dark line crossing an ochreous small cell spot; an obscure median band of dark shading across the dark brown reniform; a trace of a postmedian line; a distinct subterminal dark line of shading, edged externally somewhat palely. Secondary greyish brown, with a waved median and postmedian line, the later with a pale external edging.

Expanse, 24 mm.

*Hab.* Dinawa, August.

Type in my collection.

147. *Nodaria pratti* spec. nov.

♂. Head, palpi, thorax, and abdomen pale ochreous grey. Primary pale ochreous grey, minutely irrorated with darker grey, very sparingly on the basal and median areas, but plentifully in the terminal area; a trace of an angled antemedian double darkish line; a dark point at the end of the cell, followed by an obscure oblique darkish postmedian line, beyond which is an indistinct curved row of dark dots, a trace of a scalloped pale subterminal line; termen finely dark. Secondary pale cream colour, irrorated slightly on the fold, more plentifully at the termen; termen finely dark.

Expanse, 24 mm.

*Hab.* Dinawa, August and September; Aroa River, January and February.

Type in my collection; other specimens in the Tring Museum.

148. *Nodaria kebeae* spec. nov.

♂. Head and thorax pale cinnamon-brown; abdomen ochreous brown. Primary cinnamon-brown, with roughly parallel ochreous antemedian, median, and post-

median lines ; costa narrowly ochreous ; termen finely ochreous. Secondary pale yellow, slightly cinnamon at the tornus, in which is a yellow dash.

Expanse, 43 mm.

*Hab.* Kebea Range, March and April ; Aroa River.

Type in my collection ; other specimens in the Tring Museum.

149. *Catada ocellata* spec. nov.

♂. Head and thorax brownish grey ; abdomen greyish. Primary greyish brown, with a broad median dentate darker band ; a very broad similar post-median band projected outwards about vein 5, with the outer edge subserrate ; a pale serrate subterminal line ; a whitish < shaped mark at the end of the cell ; termen finely ochreous. Secondary greyish brown, with a short angled subternal dark dash with a pale external edging ; between veins 2 and 4 a black ocellus with a white pupil and a pale tawny external edging ; termen finely ochreous.

Expanse, 46 mm.

*Hab.* Owgarru.

Type in my collection.

150. *Catada alboapicalis* spec. nov.

♀. Head, thorax, and abdomen dark greyish brown. Primary blackish brown, with the basal half tinged with reddish ; an antemedian and median waved metallic lead-coloured line ; a large triangular snow-white apical patch broadly edged internally with black ; termen tawny, edged internally below the white patch with metallic lead colour ; termen with black points. Secondary sooty grey, with a short tawny zigzag median line, with a tawny patch at each angle and an ocellus outside the upper patch ; termen tawny, edged internally with metallic lead colour ; termen with black points.

Expanse, 42 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum ; one specimen also in the British Museum.

151. *Catada variegata* spec. nov.

♂. Head and thorax pale cinnamon-brown ; abdomen greyish sooty brown. Primary pale cinnamon-brown, with a small basal costal deep sepia-brown spot, a dark sepia median large inner marginal patch, above which is a small dark sepia spot with a costal patch over it ; a very large postmedian irregular deep sepia patch, edged above by a curved pale cinnamon dash about vein 7, over which is a costal similarly coloured smaller patch ; area from the dark patch to the termen dark greyish, with a paler reddish-brown curved irregular subterminal line and a dark sepia subapical costal patch ; termen with dark points. Secondary pale yellow, with termen very broadly, irregularly blackish.

Expanse, 34 mm.

*Hab.* Dinawa, August.

Type in my collection.

152. *Catada sanguinea* spec. nov.

♂. Head, thorax, and abdomen pale creamy grey. Primary pale creamy greyish, with a dark basal point on the cell margin ; a point on both cell

margins near the middle, and another pair at the end; an oblique darker band of shading from in front of the apex on the costa to a third from the base on the inner margin, where there is a shortish blood-red dash in the shaded band; a waved deep red spotted subterminal line, edged internally with whitish, with an external band of darker shading from the termen below the apex to near the tornus; termen darkly spotted. Secondary pinkish.

♀. Very much darker grey (though the males are somewhat worn), with the red dash and spotted line much accentuated, being quite sanguineous.

Expanse: ♂ 24; ♀ 26 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

#### 153. *Heterogramma biangulata* spec. nov.

♂. Head, thorax, and abdomen dark brown, with a fine white line at the second abdominal segment. Primary with the base pale brown up to the irregular fine antemedian line; median area dark brown from the cell to the inner margin; reniform marked by a dark dash, with a pale external edge; an irregular indistinct dark fine postmedian line; subterminal line dark, edged externally with whitish, prominently angled twice; beyond this the terminal area is paler. Secondary greyish brown, with a median and subterminal dark irregular line, the latter edged finely with white in the tornal area.

Expanse, 26 mm.

*Hab.* Dinawa, September.

Type in my collection.

This species is near *H. lapsalis* Wlk.

#### 154. *Lysimelia aroa* spec. nov.

♂. Head and thorax pale brown; abdomen darker brown. Primary pale brown, with a fine dentate dark antemedian line, a fine dark strongly serrate postmedian line, a fine irregular somewhat dotted dark subterminal line, with a fine small angle just below the apex, and a dark terminal dash above the tornus; termen darkly dotted, the dots with a whitish external edging. Secondary palish brown, with an indistinct median line and a distinct subterminal line, edged externally with whitish in the tornal area.

Expanse, 22 mm.

*Hab.* Dinawa, August; Aroa River, January.

Type in my collection; other specimens in the Tring Museum.

#### 155. *Olulis rosacea* spec. nov.

♀. Head and thorax pale creamy fawn colour; abdomen pink. Primary pale fawn colour, with the outer two-thirds of the cell creamy; a trace of a double scalloped median line, followed by a trace of a similar postmedian line; a subterminal series of dark spots; termen very finely dark; four black minute spots on the costa beyond the cell; reniform just visible. Secondary uniform pinkish, with a fine series of blackish subterminal spots; termen finely dark.

Expanse, 40 mm.

*Hab.* Dinawa, September.

Type in my collection.

**Olulodes** gen. nov.

Palpi obliquely erect, long, heavily scaled; second segment with a long brush on its upperside; end segment small; antennae fine, with minute fine cilia. Wings, primary of even width; costa curved just beyond the base, then straight to the apex; termen excised from the acute apex, produced from veins 5 to 3, receding below; scalloped; secondary small; termen scalloped produced below apex, from where it recedes. Nervation as in *Olulis*, except that veins 7, 8, 9, and 10 are stalked, 7 and 10 from the same point midway from the cell, 8 and 9 from close to the apex; secondary, veins 3 and 4 from the angle, 5 from well above the angle, 6 and 7 from the upper angle.

Type: *Olulodes pulchra* B-B.

156. **Olulodes pulchra** spec. nov.

♀. Palpi dark mauve; head and thorax mauve-grey; abdomen pinkish ochreous. Primary lavender-grey, with a restricted tawny ochreous base; a trace of an antemedian and median line; postmedian whitish line more distinct, excurred beyond the cell, from whence it recedes rapidly; a broad band of indefinite ochreous follows; subterminal tawny dotted line roughly parallel; termen darker beyond this line, a dark apical cloud, and a dark tawny patch on the inner margin at the subterminal line. Secondary ochreous grey, fading into lavender-grey, with a tawny patch at the anal angle.

Expanse, 22 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

157. **Singara ochreoplagata** spec. nov.

♂. Palpi, head, and thorax chocolate-brown; abdomen greyish brown. Primary chocolate-brown; antemedial line dark, wavy; postmedial line erect, slightly curved, angled round the ochreous reniform to the costa pale lavender-grey, edged externally by a dark line; in the reniform some dark scales, a trace of an ochreous serrate interrupted line; between this and the postmedian line the area is mostly slate-grey. Secondary chocolate-grey up to the lavender-grey median line, darkly edged externally; the rest of the wing slatey grey; subterminal line dotted ochreous.

Expanse, 38 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

158. **Singara ochrostrigata** spec. nov.

♂. Palpi, head, and thorax rufous; abdomen rufous grey. Primary rufous brown, with a darker wavy antemedian line; a broad ochreous postmedian line, darkly edged externally; a wavy more or less interrupted subterminal line, broad above vein 5, narrow below it; termen finely dotted with ochreous; reniform pale ochreous. Secondary dark greyish, with a broad ochreous median serrate line and a narrow irregular obscure postmedian line.

Expanse, 42 mm.

*Hab.* Aroa River, February.

Type in my collection.



**Temnoptera** gen. nov.

Head and thorax roughly scaled; palpi upturned, long, and roughly scaled; end segment naked; antennae long, with very fine short cilia; legs, forelegs with the tibiae roughly scaled with long hairs, a horny chitinous hook from its socket with the femora; midleg with long heavy tufts of coarse curled scales on the femora and tibiae, tibiae with one pair of spines; hindlegs with hairy tibiae having two pairs of long strong spines. Neuration: primary with vein 3 from near the angle, 4 and 5 from the angle or its close vicinity, 6 from below the upper angle, 7 from just beyond the angle, 8, 9, and 10 stalked from 7, the two former near the apex, the latter from nearer the angle than the apex, 11 from near the middle of the cell, strongly depressed so as to nearly touch 7, rising to the costa just in front of 10; secondary with 4 and 5 from the lower angle, 5 and 6 from the upper angle, a large patch of androconia from vein 1a to 3. Primary with wings long, wide, of moderately even width; costa nearly straight; termen with a slight, even curve; inner margin produced into a slight arch a third from the base. Secondary triangular, with the termen truncated, quite straight from apex to vein 1; costa slightly arched upwards.

Type: *Temnoptera meeki* B-B.

159. **Temnoptera meeki** spec. nov.

♂. Head and thorax ochreous brownish grey, the thorax having a dark patch on the centre and the patagia; both wings ochreous brownish grey, with dark brown bars and patches. Primary with two or three dark spots and speckles at the base; a very broad antemedian dark bar below the cell, followed by a second similar one; a dark patch in front of the tornus, bisected by an ochreous line between veins 1 and 3; a subterminal spot between veins 3 and 4, edged by an ochreous line; a subapical patch between veins 6 and 8, bisected by a twice-scalloped ochreous line; a small dark spot in the cell, with a dark patch at the end of the cell, bisected by a curved ochreous line; termen darkly spotted, the spots with ochreous external edging. Secondary with a dark postmedian bar edged externally with an ochreous line; preceding this is a trace of a median patch; between veins 3 and 4 a dark spot edged externally with an ochreous line; termen darkly spotted, spots with ochreous external edging; the wings are more or less irrorated with dark rough scales, and the ochreous veins interrupt all the markings.

Expanse, 54 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

**Cyttaralopha** gen. nov.

Palpi obliquely porrect, tufted on the upper side, long, reaching above the vertex, end joint longish, naked; antennae finely and minutely bipectinate; legs with hairy tibiae; hindtibiae broadly flattened and inflated, with a heavy tuft of hairs. Neuration: primary with cell very short, veins 3, 4, and 5 in male converging at three-quarters and lying almost touching each other to the lower angle, 6 from the upper angle, 7, 8, 9, and 10 stalked; secondary with two internal veins; veins 2, 3, 4, and 5 from the lower angle of the cell, the three latter stalked from one point, and bent upwards from beyond the cell, which is very short and broadish; veins 6 and 7 from the upper angle, the former bent

deeply down to three-quarters from 7, curved sharply round, but widening upwards slightly from vein 5 at the termen; vein 8 bent down close to the base and touching 7, then bent suddenly upwards in a bold curve towards the costa, terminating just below the apex; both wings very broad and ample. Primary, costa with a bold curve to the centre; a short sudden depression, followed by a bolder curve to the apex; termen receding very slightly from the apex; inner margin with a deepish curve outwards from the base. Secondary, costa with a bold outward curve to its middle, receding from thence rapidly to the somewhat acute apex; termen obliquely straight to vein 2, below which it is straightly truncated to the angle. Primary below, with the costa fringed with long hair to the middle. Secondary with a heavy curled tuft of coarse long scales, the upper portion of the wing covered with androconia and the cell with an androconial-tufted excrescence.

Type: *Cyttaralopha loxographa* B-B.

160. *Cyttaralopha loxographa* spec. nov.

♂. Head and thorax dark sepia-brown; abdomen dark fawn brownish grey. Primary dirty fawn-brown, with the base dark sepia-brown, receding rapidly basewards from the cell; a broad oblique dark sepia-brown median band, from whence the outer area of the wing is more or less covered with short oblique fine dark striae; a broad excurved dark sepia-brown band from in front of the apex to a third from the tornus, the band being quite indefinite as to its outer margin; termen dark grey from the band aforementioned. Secondary with upper half of wing to vein 6 creamy opalescent in certain lights; lower portion of wing fawn brownish, with dark sepia oblique fine striae and a dark oval spot about the middle of vein 5. The curled tuft on the costa below is dark chocolate-brown.

Expanse, 55 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

161. *Camptochilus cinnamomeus* spec. nov.

♂. Section with antennae with very minute fine cilia with rather longer fine bristles. Palpi dark slate-grey; head and thorax pale cinnamon colour; collar edged and bisected with slate-grey; abdomen cinnamon. Primary pale dull cinnamon, with antemedian fine oblique line to vein 1b; median and postmedian lines darkish, slightly curved basewards, colour between the two first lines pale ochreous; area beyond the postmedian paler cinnamon; the least trace of a somewhat waved subterminal line, beyond which the terminal area is darker, with a dark cloud at the tornus, in which is a short irregular lavender-grey dash. The whole of the wing has the appearance of being very finely irrorated. Secondary ochreous, with a trace of antemedian, median, and postmedian dark fine lines; subterminal area broadly dark grey; fringes ochreous to about vein 4, greyish below.

♀. Like the male, but more ochreous, and with all the lines strongly accentuated.

Expanse: ♂ 46; ♀ 56 mm.

*Hab.* Ekeikei, Aroa River, March and April.

Type in my collection; other specimens in the Tring Museum.

162. *Camptochilus rufus* spec. nov.

♀. Head, thorax, and abdomen rufous brown. Primary uniform red-brown, lighter red in the postmedian area, with a small blackish spot at the end of the cell. Secondary uniform greyish brown.

Expanse, 42 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

*Plinthopa* gen. nov.

Palpi obliquely porrect, scaled; second segment long, reaching above the vertex, with a slight pencil of hairs on the upper side; end segment small; antennae almost simple, the cilia being so extremely short and fine; legs scaled. Neuration: primary with veins 4 and 5 from the lower angle of the cell, 6 from the upper angle, 7, 8, and 9 stalked, 10 and 11 from the cell; secondary, 3 from before the angle, 4 and 5 from the angle, 6 and 7 stalked, 8 lying almost along 7 to well beyond the origin of 6; cell very short. Primary with costa depressed at base and apex, excurved between; apex acute; termen excavated below apex produced outwards at vein 5; wing broad. Secondary ample; termen slightly excavated below apex. This description is taken from a female.

Type: *Plinthopa rubra* B-B.

163. *Plinthopa rubra* spec. nov.

♀. Head dark grey; thorax bright red; abdomen greyish brown. Primary with base to antemedian line bright red; a short oblique dark basal line; postmedian line dark crenulate, excurved below the costa; cell closed by a dark spot; area between this line and the antemedian reddish grey; a dark broadish, nearly erect, slightly curved subterminal line in a grey area; terminal area reddish grey, the wing more or less finely irrorated with black. Secondary uniform greyish brown, with a terminal band of reddish.

Expanse, 48 mm.

*Hab.* Ekeikei, January and February; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

164. *Corcobara lutea* spec. nov.

Palpi rusty brown laterally, pale grey on the upper side; thorax cinnamon-grey; abdomen yellow. Primary rusty brown, with a sub-costal row of black dots above the cell; a dark line from the upper angle of the cell bent upwards to the apex before its centre; an obscure, dark, strongly angled postmedian line receding very obliquely from its angle about vein 6 to the inner margin; beyond this the area is darker from vein 3 to the dark line already mentioned, up to which it tapers rapidly; subterminal area paler; termen dark rusty brown; the costal area is tinged with lilac; the whole of the wing is more or less irrorated with rusty scales; reniform with a dark spot at its lower margin. Secondary uniform spotless ochre-yellow.

Expanse, 64 mm.

*Hab.* Aroa River.

Type in my collection.

165. *Marapana punctitorna* spec. nov.

♂. Head and thorax pale cinnamon-brown; abdomen pinkish. Primary pale cinnamon-brown, more or less densely irrorated with dark grey; two blackish points in the cell, one at the middle and one at the lower angle; a trace of a broad stripe of the dark irrorations from the apex to the middle of the inner margin, edged externally by an oblique row of fine black points; a largish dark spot close to the tornus; a subterminal row of fine black points. Secondary pinkish, with a dark spot at the tornus and a subterminal row of black dots.

Expanse, 36 mm.

*Hab.* Dinawa, July and August.

Type in my collection.

166. *Marapana ekeikei* spec. nov.

♂. Head and thorax pale creamy grey; abdomen cinnamon-grey. Primary pale creamy grey, slightly irrorated with grey; two black points at the end of the cell, the lower one the larger of the two; a trace of an oblique line of black points from the apex, followed by a band of pale ground colour; termen with black points. Secondary pale cream colour, somewhat pinkish below vein 6; termen dotted with very distinct blackish dots; underside with a distinct black dot in the cells of both wings.

Expanse, 37 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

167. *Marapana angulata* spec. nov.

♂. Head and thorax pale cream colour; abdomen darker. Primary very pale washed-out straw colour, with a short oblique dark dash from vein 1*b* to the cell; four dark parallelogramic points at the end of the cell; a postmedian strongly angled pinkish indefinite band, angled beyond the cell about vein 5, followed by an interrupted fine dark crenulate line; a dark spot on vein 3 near the termen; three black short costal dashes in front of the apex. Secondary pinkish, pale creamy above the cell; a dark spot at the end of the cell; termen broadly grey; underside, primary pinkish, with a broad dark angled postmedian line; secondary pale creamy, with a dark cell-spot and a trace of a dark postmedian line.

Expanse, 38 mm.

*Hab.* Dinawa, September.

Type in my collection.

168. *Marapana bilineata* spec. nov.

♂. Head, thorax, abdomen, and both wings brick-red, tinged with pink. Primary darker than secondary, with two paler oblique lines, the postmedian being more oblique than the antemedian; a trace of an irregular subterminal line of paler ground colour; termen with black points; a black dot at the end of the cell. Secondary with an oblique paler median line; termen with black points.

Expanse, 34 mm.

*Hab.* Dinawa, August and September; Aroa River, January and February; and other localities.

Type in my collection; other specimens in the Tring Museum.

169. *Marapana pulchra* spec. nov.

♂. Head and throat olive-grey; collar tipped with white; abdomen white, with olive-grey dorsum. Primary olive-grey up to the reniform, receding somewhat to the inner margin; beyond this pale lilac, irrorated slightly with olive-grey up to the pale pinkish oblique postmedian line; area beyond this line olive-grey, paler and mixed with lilac at the termen; a trace of a pale pinkish serrated subterminal line; reniform palely edged with two dark olive dots; termen with dark points. Secondary exactly similar to the primary.

Expanse, 32 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

**Avirostrum** gen. nov.

Palpi very long, porrect, thickly scaled, end segment small; thorax and abdomen smoothly scaled; legs, tibiae heavily scaled; wings, primary tapering to broad; costa nearly straight, depressed before apex; termen excised below apex to a projection at vein 4, whence it recedes to the tornus; secondary with termen crenulate, slightly angled at vein 4. Neuration: primary with vein 4 from the angle, 5 from above the angle, 6 from the upper angle, 7, 8, 9, and 10 stalked, the first from the end of the ariole, the three latter on a long stalk; secondary with veins 3 and 4 and 6 and 7 from their respective angles, 5 from below the middle of the discocellulars.

Type: *Avirostrum pratti* B-B.

170. *Avirostrum pratti* spec. nov.

♂. Head and collar pale fawn-brown, darkly speckled; thorax and abdomen brownish. Primary pale dull madder-brown, with a short dark basal line, a distinct dark antemedian and median line roughly parallel angled near the costa, receding basewards in a slight curve to the inner margin; postmedian line obscure, roughly parallel to the preceding lines; subterminal line dark, oblique; an ochreous terminal patch from vein 5 to 2 (this patch is occasionally almost absent); a whitish dot in the cell; two dark dots at the end of the cell. Secondary, base somewhat ochreous; a dark madder-brown irregular median band, preceded by a dark basal line; a broad ochreous postmedian band edged externally by an oblique rusty subterminal line; the ochreous band is bisected by a fine dark line excurved at veins 3 and 4; apex with a dark madder-grey patch, below which is an ochreous patch; a whitish spot in the cell.

♀. Entirely ochreous, with dark lines; the secondary has also dark median and apical areas.

Expanse, 32 mm.

*Hab.* Dinawa, August, March, and April; also other localities, including the Aroa River.

Type in my collection; other specimens in the Tring Museum.

171. *Avirostrum ochraceum* spec. nov.

♀. Head, thorax, and abdomen pale tawny ochreous. Primary pale ochreous, finely speckled in parts, with antemedian, median, and postmedian dark lines, the

median being most distinct, all excurved below the costa; a tawny subterminal line, with an outer angled purplish line and a large darkish apical patch. Secondary ochreous, somewhat speckled, with a broadish tawny subterminal line, from which the whole terminal area is slate-coloured, with a dark angled fine line bisecting it.

Expanse, 32 mm.

*Hab.* Ekeikei, March and April; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

172. *Avirostrum pallens* spec. nov.

♀. Palpi, head, and thorax pale cream colour; abdomen deep cream colour. Primary pale creamy white, with a broad purplish grey diffused curved basal line, a waved excurved diffused median and postmedian line, rather deeper in colour than the ground; a dark purplish brown irregular wavy subterminal line, beyond which the whole of the area is purplish grey mixed with purplish rusty colour, with a paler large irregular costal patch; fringes rusty brown. Secondary pale creamy white, with a mauve-grey broad costal border and a similar coloured basal line; a median and postmedian wavy grey line; a fine waved whitish subterminal line from the apex to vein 6, where it meets an excurved deep crimson terminal line, to above vein 2, from whence the white waved line is continued into the angle; a rusty spot between veins 6 and 7 in front of the white line, outside which line the termen is mauve-grey, with a similar colouring at the anal angle.

Expanse, 28 mm.

*Hab.* Dinawa, August; Aroa River, February.

Type in my collection; other specimens in the Tring Museum.

*Marapana modesta* Swinhoe belongs to this genus; also *fulcitenia* Warr. should form a section of the same.

173. *Rhynchina aroa* spec. nov.

♂. Head and thorax umber-brown; abdomen greyish brown. Primary umber-brown, with a black dot below the cell, and another in the cell above and beyond it; a slightly dusky dash between them outwards; an irregular oblique postmedian line; an oblique dark stripe of shading from the apex to the postmedian line near the inner margin; termen with internervular dark dashes, with a pale inner edge. Secondary uniform dark greyish brown.

Expanse, 33 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

174. *Rhynchina meeki* spec. nov.

♂. Head and thorax russet-brown; abdomen pale greyish. Primary darkish brown, with the inner margin below the cell broadly pale rusty brown; a dark dot in the cell, below which is a dark outward dash; a very irregular fine blackish double postmedian line; reniform between them slightly rusty; a whitish apical patch extending downwards obliquely in a short tapering dash, outside which is a dark indefinite oblique dash, with three whitish dots beyond it, one on veins 2, 3, and 4, each being edged internally with blackish; termen with a dark interrupted

scalloped line edged finely internally with whitish. Secondary uniform pale brownish grey; termen with a fine dark line.

Expanse, 28 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

175. *Rhynchina ides* spec. nov.

♂. Head and thorax mottled greyish; abdomen pale greyish. Primary irrorated slaty grey, with an olive costal streak; antemedian pale waved line edged finely internally with olive, with a pale whitish basal dash in the cell; postmedian line slightly waved, whitish, edged finely internally with olive; a dark dash on the lower margin of the cell, with a whitish edging above; a curved, slightly oblique white line from the apex to the inner margin in front of the tornus, edged internally, broadly, and indefinitely, with olive; termen finely white. Secondary uniform greyish brown, with a short ochreous dash, 2 and 4 laterally edged with brown; termen very finely white, edged internally finely with olive.

Expanse, 29 mm.

*Hab.* Aroa River, January.

Type in the Tring Museum.

This species has bipectinated antennae, and has a heavy pencil of hairs on the underside of the primary along the lower margin of the cell.

176. *Plumipalpia tripunctata* spec. nov.

♀. Head, palpi, thorax, and abdomen pale cinnamon-brown. Primary pale cinnamon-brown, with a dark horizontal streak from the base along the upper margin of the cell into the apex; the dark area expands from the cell more or less outwards to about vein 2; three blackish small raised spots in the median area, two in the cell and one below the cell; a postmedian row of minute black points; a pale streak above the dark one from the apex to beyond the spotted row, broadest by the black points. Secondary uniform pale greyish brown.

Expanse, 37 mm.

*Hab.* Owgarrá, Dinawa, August.

Type in my collection.

177. *Hypena medionigra* spec. nov.

♂. Head and thorax very dark brown; abdomen sooty brown, with darker dorsal tufts. Primary very dark velvety brown up to the waved pale postmedian line; a trace of an antemedian pale line, beyond which the area is darkest; the postmedian and subterminal areas not velvety nor quite so dark, with a trace of a black spotted deeply waved subterminal line; a slight dark subapical cloud on the termen. Secondary uniform dark sooty brown; underside greyish brown; both wings with a trace of a median darker line. Primary with a single white subapical dot below the costa.

Expanse, 40 mm.

*Hab.* Ekeikei, January and February.

Type in my collection.

178. *Hypena nodyna* spec. nov.

♂. Head and thorax clay-brown; abdomen sooty brown. Primary uniform clay-brown, with a basal interrupted fine white line, a sharply defined broadish

white erect oblique line, a white subapical dot, below which is a trace of a darkly dotted curved subterminal line, the dark dots having a minute white external edging ; a dark dot in the cell. Secondary dark greyish brown.

Expanse, 32 mm.

*Hab.* Ekeikei, March and April ; Aroa River, February.

Type in my collection ; other specimens in the Tring Museum.

179. *Hypena aneliopsis* spec. nov.

♀. Head, thorax, and abdomen greyish brown. Primary dull greyish brown, with a waved darker antemedian line and an erect oblique postmedian dark line finely edged externally with white ; a broadly waved subterminal dotted line, into which runs a dark line from the apex, extending to the inner margin ; a dark dot in the cell ; termen finely dark. Secondary uniform greyish brown.

Expanse, 30 mm.

*Hab.* Dinawa, August ; Ekeikei, March and April.

Type in my collection.

180. *Hypena hedychroa* spec. nov.

♂. Head, thorax, and abdomen greyish brown. Primary greyish brown, with a paler antemedian line edged finely with olive-brown externally ; a dark dot in the cell, beyond which the ground colour is dark velvety brown up to the white tri-waved postmedian line : a slight angle is created at the two points where the waves meet about veins 2 and 6 ; three or four small dark subterminal spots, below which is a pale waved line to the tornus ; a dark dash from the apex, sharply curved basewards below the second spot, edged above palely ; termen finely dark. Secondary uniform dull greyish brown ; underside with a median line in both wings. Primary with two vertical white subapical dots below the costa.

Expanse, 36 mm.

*Hab.* Ekeikei, January and February ; Dinawa and Aroa River.

Type in my collection ; other specimens in the Tring Museum.

181. *Hypena subalbida* spec. nov.

♂. Head, thorax, and abdomen brownish grey. Primary pale greyish brown, with a trace of a curved fine dark antemedian line touching a black dot in the cell ; postmedian line white, erect, slightly oblique ; the area adjoining, and before this line darker ; a trace of a spotted subterminal line interrupted below the second subcostal spot by a broad dark subapical dash curved basewards ; the tornal part of the subterminal line unspotted. Secondary white, with a broad dark termen tapering rapidly to the tornus.

Expanse, 34 mm.

*Hab.* Aroa River, January.

Type in my collection.

182. *Hypena leucoprepa* spec. nov.

♂. Head and thorax russet-brown, abdomen blackish brown. Primary russet-brown up to the tri-waved white postmedian line, which is slightly but distinctly angled at veins 2 and 6 ; a dark dot in the cell, in front of which is the antemedian dark strongly excurved line ; subterminal line dotted above vein 5 with a large dark



sub-apical cloud invading it below the second subcostal spot and confluent with a subrenulate band of dark shading outside the postmedian line. Secondary almost snow-white, with a broad black termen tapering to the tornus.

Expanse, 39 mm.

*Hab.* Kebea Range, March and April; Aroa River.

Type in my collection.

Other specimens in the Tring Museum.

183. *Hypena aroa* spec. nov.

♂. Head, thorax, and abdomen pale brownish grey. Primary pale olive-grey up to the fine oblique slightly curved whitish line; a dark dot in the cell, from whence up to the postmedian line the colour is more olivaceous; an oblique indefinite band of darker shading from the apex to the inner margin; termen dark slate-grey; with a fine scalloped dark line. Secondary entirely whitish, slightly tinged with cream; a fine blackish-brown termen, with a slight suffusion at veins 2 to 5; fringes dark.

Expanse, 29 mm.

*Hab.* Aroa River, February.

Type in my collection.

Other specimens in the Tring Museum.

184. *Hypena zapluta* spec. nov.

♀. Head, thorax, and abdomen rich dark brown, inclined to blackish. Primary chocolate-brown; the upper portion of the wing from vein 2 very dark reddish sooty brown, finely irrorated with pale grey in parts, with a chocolate spot showing through here and there a trace of an antemedian line; postmedian dark waved line more distinct and finely edged externally with whitish; a trace of a spotted sub-terminal line, in which is a series of whitish points; fold with dark bands and spots. Secondary snow-white, with an extremely broad terminal border of deep sooty black.

Expanse, 39 mm.

*Hab.* Kebea Range, March and April.

Type in my collection.

185. *Hypena griseata* spec. nov.

♂. Head and thorax pale greyish, finely irrorated with pale lilac; abdomen pale greyish, with paler segmental divisions. Primary pale greyish, with pale lavender-grey irrorations; a very strongly dentate antemedian line dark externally, lavender-grey internally; a pale dot in the cell, and a larger pale spot at the reniform; postmedian dark line, pale externally, curved over the reniform, then recurved, below which it is nearly erect to the inner margin; a broad pale lavender-grey band follows, succeeded by an olive-brown band with a pale lavender band beyond this, whence up to the termen it is olive-brown, the two olive-brown areas being confluent about veins 7 and 8; termen darkly dashed, the dashes having pale internal edgings; four whitish points on the costa. Secondary uniform greyish brown, with dark dashes on the termen.

Expanse, 38 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

186. *Hypena erecta* spec. nov.

♂. Head, thorax, and abdomen pale greyish brown. Primary greyish brown, finely irrorated more or less all over; antemedial line irregular, excurved, in parts olive-brown, very evanescent, being only distinct in quite fresh specimens; postmedian line erect, white, slightly oblique, with a dark somewhat suffused internal edging; three blackish dots in the subterminal area below the costa, the lowest widely separated from the upper two by a broad dark brown dash from the apex, which dash is angled inwards along vein 7; terminal area slightly darker than the general colour; termen with fine dark scallops. Secondary uniform greyish brown, with a fine dark terminal line.

Expanse, 33 mm.

*Hab.* Ekeikei, Aroa River, February.

Type in my collection.

Other specimens in the Tring Museum.

187. *Hypena zapluta* spec. nov.

♂. Head and thorax mottled brownish grey; abdomen greyish brown. Primary mottled brownish grey, with the deep cream-coloured antemedial and postmedian lines parallel and somewhat oblique, the former externally, the latter internally, edged with olive-brown, the latter also having an indefinite dark suffusion preceding it; a black point in the cell; reniform visible as a fawn-coloured dash; subterminal line pale and irregular into the tornus, descending from four blackish irregular spots edged palely externally, below the second of which is a curved pale line with a blackish edging below, descending from the apex; terminal area greyish, with a dark terminal line. Secondary uniform pale brownish, with a fine dark terminal line.

Expanse, 36 mm.

*Hab.* Ekeikei, January and February.

Type in my collection.

Allied to *H. tylistalis* Swinhoe.

188. *Hypena themerodes* spec. nov.

♂. Head and thorax olive-brown; abdomen greyish brown. Primary olive-brown; antemedial line waved, obscure; postmedian line fine white, waved with a darker internal edging; subterminal pale line interrupted, more or less dotted, strongly waved and somewhat interrupted; terminal line fine and dark. Secondary uniform brownish.

Expanse, 38 mm.

*Hab.* Kebea Range and other localities, March and April.

Type in my collection.

Other specimens in the Tring Museum.

Allied to *H. phecomalis* Swinhoe.

189. *Hypena lichenalis* spec. nov.

♀. Head and thorax roughly scaled greyish brown; abdomen paler brownish. Primary roughly scaled greyish brown; basal pale line erect from the costa into the cell, then roughly excurved below; postmedian pale line irregular, produced outwards from vein 8 to 4; subterminal area broadly lichen grey; termen broadly

greyish brown. Secondary roughly scaled greyish brown, with a brown median line, beyond which is a broadish tapering band of lichen grey; termen broadly brownish.

Expanse, 39 mm.

*Hab.* Dinawa, September.

Type in my collection.

190. *Hypena irregulinea* spec. nov.

♂. Head and thorax dark brownish grey; abdomen brown, with reddish dorsal tufts. Primary brownish, with basal dark line twice strongly waved outwards; postmedian pale line produced strongly outwards beyond the cell, angled slightly outwards on the fold; area between these lines somewhat reddish darker brown; a dark dot in the cell; a subterminal waved series of dark dots, the costal two with white external edging; terminal line finely dark. Secondary uniform brownish; termen finely pale, with a fine external dark edging.

Expanse, 37 mm.

*Hab.* Kebea Range, March and April.

Type in my collection.

191. *Hypena albicomma* spec. nov.

♂. Head and thorax dark brown; abdomen slightly paler, with dark dorsal tufts. Primary rich velvety burnt brown to the pale waved postmedian line; a trace of an antemedian line across the snow-white comma mark on the lower margin of the cell; outer area beyond the postmedian line dark fawn-brown, paler than the median area, with two large slate-grey patches, one on the costa, the other in the upper radial area, separated by a narrow stripe of the fawn-brown along vein 6; the whole of this outer area is strongly stippled with largish dark irroration. Secondary uniform dark brown.

Expanse, 40 mm.

*Hab.* Kebea Range, 6000 ft., March and April.

Type in my collection.

192. *Hypena ovisignata* spec. nov.

♂. Head, thorax, and primary palish brown. Primary with an obscure whitish antemedian line nearly erect from the costa across the cell, receding basewards from the lower margin of the cell; postmedian line whitish, nearly straight, very oblique; between these two lines is an ovate, very dark velvety spot along the fold; a darkish cloudy suffusion occupies a large portion of the outer area beyond the oblique postmedian line; a trace of a spotted subterminal line across this suffusion. Secondary uniform brownish.

Expanse, 39 mm.

*Hab.* Ekeikei, January and February.

Type in my collection.

193. *Hypena unicolor* spec. nov.

♂. Head and thorax darkish brown; abdomen somewhat paler. Primary uniform umber-brown, slightly darker in parts, with a somewhat paler large irregularly ovate spot beyond the end of the cell; postmedian line fine dark, twice waved; a subterminal row of white points; a whitish apical spot. Secondary dull

brown, whitish above the cell. On the underside of the primary in a whitish ground is a deep cream-coloured pencil of long hairs lying along the fold, and a corresponding pencil of like hairs lies along the upper margin of the cell of the secondaries.

Expanse, 39 mm.

*Hab.* Kebea Range, 6000 ft., July.

Type in my collection.

194. *Hypena albonotata* spec. nov.

♂. Head, thorax, and primary darkish greyish brown, tinged with rusty in the median area and with much dark grey suffusion; a fine waved antemedian line excurved on the fold, edging internally a good-sized snow-white spot in the cell; postmedian line waved, excurved beyond the cell, with a subterminal row of fine white points; a whitish apical spot; termen with fine white points between the veins. Secondary greyish brown, whitish above the cell; termen with fine white internervular points; underside, primary with a cream-coloured pencil of hairs lying in the fold, the white cell spot showing through cream-coloured. Secondary with a similar pencil along the upper margin of the cell.

Expanse, 38 mm.

*Hab.* Dinawa, September.

Type in my collection; other specimens in the Tring Museum.

195. *Hypena nephoptera* spec. nov.

♂. Head and thorax brown; abdomen paler. Primary pale umber-brown, with a pale slightly waved antemedian line and a white nearly erect postmedian line; a black dot in the cell, followed by a dark suffused cloud backing up to the white line; a very dark irregular cloud in the subterminal area from the apex obliquely inwards and thence to the tornus; an interrupted subterminal line arising in two white subcostal dots; three or four whitish costal points in front of the apex; termen with dark internervular dashes. Secondary uniform brownish.

Expanse, 34 mm.

*Hab.* Aroa River, February and other localities.

Type in my collection; other specimens in the Tring Museum.

196. *Hypena callilinea* spec. nov.

♀. Head and thorax dull sepia-brown; abdomen paler brown. Primary dark sepia-brown up to the irregular white line, which is slightly angled twice at vein 5 and about vein 2; a fine dark irregular antemedian line; a dark spot in the cell; area beyond the white line pale lavender-brown, deepening in tone towards the termen; subterminal darkly spotted line strongly waved; a short dark cloudy dash from the apex inwards; termen with internervular dark dashes. Secondary uniform dull brown.

Expanse, 36 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

197. *Hypena plinthopa* spec. nov.

♂. Head and thorax dull reddish brown; abdomen dull brown. Primary dull reddish brown, with an irregular darkish antemedian line and an irregular

postmedian pale line, the area darker up to this point; an irregular waved series of dark subterminal points, arising in a snow-white subapical dot; a dark point in the cell; the whole of the wing is stippled with slate-grey irrorations. Secondary uniform darkish brown.

Expanse, 29 mm.

*Hab.* Ekeikei, March and April, and other localities.

Type in my collection; other specimens in the Tring Museum.

In some specimens the area to the postmedian line is quite bright reddish.

198. *Hypena callipona* spec. nov.

♂. Head and thorax purplish brown; abdomen paler brown. Primary purplish brown, with a reddish tint in the median area; antemedian deep cream-coloured line, obscure, straightish, very slightly oblique; postmedian line deep cream, more distinct, roughly parallel with the previous line but slightly waved; area beyond the postmedian line paler, but with a subapical terminal dark velvety wedge-shaped suffusion; a waved subterminal series of small dark spots externally edged with white; termen fine blackish, preceded by a series of short snow-white fine dashes; the wing is more or less finely irrorated with lavender-grey. Secondary dark grey; termen with fine white points.

Expanse, 30 mm.

*Hab.* Kebea Range, 6000 ft., March and April.

Type in my collection.

199. *Hypena orphnina* spec. nov.

♀. Head and thorax grizzled grey; abdomen darkish grey. Primary grizzled grey, with an obscure irregular antemedian paler line darkly edged externally; postmedian line pale, irregular, outwardly produced from vein 8 to 4; a broad subterminal irregular band of bluish grey; reniform fawn colour. Secondary brownish grey, with a dark median line, followed by a band of bluish grey, beyond which the terminal area is dark.

Expanse, 38 mm.

*Hab.* Dinawa, September.

Type in my collection.

200. *Hypena spodopa* spec. nov.

♀. Head, thorax, and abdomen ashy grey. Primary slightly ochreous pale ashen grey, very finely and densely irrorated; median and postmedian lines roughly parallel, slightly oblique, dark brown; subterminal line dark brown, slightly excurved about veins 4 and 5; a dark brown oblique dash from the apex to the subterminal line at vein 6; termen finely dark. Secondary uniform pale brownish grey.

Expanse, 32 mm.

*Hab.* Dinawa, May; Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

201. *Hypena leucospora* spec. nov.

♂. Head, thorax, and abdomen dark brown. Primary dark umber-brown, with an oval white small spot in the cell; a trace of a pale postmedian line darkly

edged internally; subterminal band obscure, darkly spotted. Secondary palish grey-brown.

Expanse, 30 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

The type is in poor condition, but it belongs manifestly to a new species and is in a condition to be quite recognisable.

202. *Hypena styx* spec. nov.

♀. Head, thorax, and abdomen dark brown. Primary dark brown, with an irregularly broad, waved, blackish-brown velvety antemedian line; postmedian line deep velvety black, edged externally with deep cream colour; the area between these lines is filled in for its outer half by a suffused band of blackish; subterminal line fine blackish, very irregular and somewhat dentate, with a subapical terminal cloud extending into it; outside the postmedian line is somewhat dusted with whitish grey. Secondary darkish brown.

Expanse, 29 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

203. *Hypena aiana* spec. nov.

♂. Head, thorax, abdomen, and both wings uniform dull brownish, slightly paler beyond the postmedian line; a trace of a fine dark scalloped antemedian line; postmedian line dark, nearly straight, slightly oblique; termen with a scalloped linear black line.

Expanse, 30 mm.

*Hab.* Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

204. *Hypena incognata* spec. nov.

♀. Head and thorax dull brown; abdomen paler. Primary olive-brown up to the waved white postmedian line; a trace of a fine dark scalloped antemedian line; postmedian line followed by a broad indefinite band of quite pale greyish; terminal area very broadly dark, with an oblique pale subapical patch. Secondary uniform dull brown.

Expanse, 22 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

205. *Hypena mambara* spec. nov.

♂. Head and thorax chocolate-brown; abdomen greyish. Primary purplish brown, with a rich velvety, dark purplish brown streak in the cell to the termen, and several internervular similar dashes in the radial area; a broad similar stripe all along the fold from base to termen; a dark interrupted antemedian line; a trace of a similar median line; postmedian line finer, irregular, produced slightly outwards at the cell, with a paler external edging; subterminal line irregular, somewhat waved, dotted with pale bluish grey; a bluish-grey dot in the cell;

reniform bluish grey, with a dark central dash ; termen interrupted finely pale grey. Secondary greyish brown.

Expanse, 32 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

**Parhypena** gen. nov.

Differs from *Stenhyppena* Hmps. in the antennae being fasciculate ; no raised specks in the cell. Secondary with veins 3 and 4 and 6 and 7 from the lower and upper angles respectively.

Type : *Parhypena albopunctata* B-B.

206. **Parhypena albopunctata** spec. nov.

♂. Head and thorax darkish cinnamon-brown ; abdomen greyish. Primary darkish cinnamon-brown, with a trace of an antemedian dark interrupted line, a more distinct dark serrate postmedian line, and an irregular subterminal series of dark points with whitish external edging ; cell closed by a dark broken dash. Secondary uniform pale ochreous grey.

Expanse, 28 mm.

*Hab.* Dinawa, July to September.

Type in my collection.

**Argillana** gen. nov.

Palpi of moderate length, scaled ; second segment fringed above ; end segment short, oblique ; antennae with minute cilia ; wings, primary expanding outwards ; costa moderately straight ; apex depressed ; termen evenly produced outwards. Neuration : primary with veins 3 and 4 from the angle, 5 from near the angle, 6 from the upper angle, 7 from the ariole, 8, 9, and 10 stalked from beyond the middle. Secondary with veins 3 and 4 from the angle, 5 from below the middle of the discocellulars, 6 and 7 from the upper angle.

Type : *Argillana albistrigata* B-B.

207. **Argillana albistrigata** spec. nov.

♂. Palpi slate-grey, fringed with white above on the second segment ; head, thorax, abdomen, and both wings bright fulvous ; an orange-tawny antemedian line ; a dark median line confluent with a white line below the cell, on each side of which (latter) is a short orange dash ; beyond the obscure reniform a curved white dash bordering internally a pale orange patch, below which to the inner margin is a large patch of slate-grey ; an interrupted waved orange-tawny subterminal line. Secondary with a broad orange median band bisected by a waved white line ; an obscure darkly dotted excurved subterminal line.

Expanse, 26 mm.

*Hab.* Dinawa, August.

Type in my collection.

**Brithodes** gen. nov.

Palpi with second segment very long, porrect, scaled, haired on the upper side ; end segment obliquely upturned, short, haired with naked apex ; antennae minutely and finely bipectinate in both sexes, more strongly in the male. Neuration :

primary with 6 from below the angle, 7 from the angle, 8, 9, and 10 stalked near the apex. Secondary with 3 and 4 stalked, 5 from near the lower angle, 6 and 7 from the upper angle.

Type: *Brithodes tetralinea* B-B. *syn. n. quadrilineata*

208. *Brithodes quadrilineata* spec. nov.

♂ and ♀. Head, thorax, and primary lilac-grey. Primary with four pale lines with tawny external edging, more suffused in the female than in the male; basal line short, parallel with the antemedian line, which is slightly oblique; postmedian and subterminal lines roughly parallel, both slightly angled and shortly curved about vein 7 to the costa; termen with a fine linear scalloped dark line, preceded by a similar but slightly broader line; a dark spot at the end of the cell. Secondary pale straw, with a slight pinkish suffusion in the female. In the female the lines are more distinctly white than in the male, and there is a broad white suffusion preceding the subterminal line.

Expanse, 24 mm.

*Hab.* Dinawa, August and September.

Type in my collection.

209. *Chusaris aroa* spec. nov.

♂. Head pale lemon-yellow; thorax pale lemon, with a black central meta-thoracic spot and black collar. Primary pale lemon-yellow, with four black costal spots, one at the base, two in the median area, one near the apex; a large black patch in the fold excavated above and below, extending upwards to touch the third costal spot, but not touching the second; a black dot at the apex, and two terminal patches below it. Secondary greyish, with slight pale lemon invasion near the tornus.

Expanse, 18 to 19 mm.

*Hab.* Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

210. *Chusaris dinawa* spec. nov.

♂. Head, thorax, abdomen, and both wings ochraceous grey. Primary with a darker indefinite oblique median line, a narrower parallel postmedian line, a broadish pale oblique subterminal line tapering up narrowly to the apex, finely edged internally, and broadly externally with darker ground colour, a greyish line between this and the termen, after which the termen is broadly paler; termen darkly dotted. Secondary with the subterminal markings of the primary carried through, but waved.

Expanse, 30 mm.

*Hab.* Dinawa, August.

Type in my collection.

211. *Chusaris olearia* spec. nov.

♂. Head, thorax, and abdomen brownish grey. Primary pale brownish, with a slight tinge of purplish; antemedian line dark, waved; postmedian line dark, irregular, waved, and produced outwards about vein 6 and 7; this line is more or less distinctly finely edged externally with pale ochreous; a trace of an interrupted, very irregular pale subterminal line; a dark indefinite spot at the end of the cell, with the least trace of a median line crossing it; termen with fine internervular



ochreous dashes. Secondary pale brownish grey. The whole insect has a slightly shiny appearance, as if it were greasy.

Expanse, 26 mm.

*Hab.* Ougarra.

Type in my collection.

**Foveades** gen. nov.

Palpi long, porrect, very heavily scaled, with a long fringe on the upperside of the second segment; end joint minute; antennae bipectinate; pectinations long; wings, primary broad, termen arched, secondary ample. Neuration: primary with veins 4 and 5 from the lower angle, 6 and 7 from the upper angle, 8, 9, 10, and 11 stalked, 8 and 9 from near the apex, 10 and 11 from a common stalk given off 8 near the cell; a deep pit in the cell extending nearly to the costa, causing the costal vein to be curved downwards beyond the pit. Secondary with 3 and 4 from the lower angle, 5 from about the middle of the discocellulars, 6 and 7 from the upper angle.

Type: *Foveades aroensis* B-B.

212. **Foveades aroensis** spec. nov.

♂. Palpi ochreous, heavily scaled with blackish; thorax and abdomen cream-coloured. Primary cream-coloured, with a black costal spot near the base, followed by a second black spot; a third small black costal spot above the end of the cell; a blackish oblique postmedian line preceded by a row of black dots, both shortly angled inwards above the inner margin; termen dotted with black; a small black dot in the cell, followed by two at the end; a black dot below the cell near the base. Secondary creamy, semihyaline, whitish, with a trace of a dark median line.

Expanse, 20 mm.

*Hab.* Aroa River, April.

Type in the Tring Museum.

213. **Hypenagonia brunnea** spec. nov.

♂. Head, thorax, and abdomen umber-brown. Primary darkish brown, with the trace of a waved basal line, beyond which the median area is darker; postmedian dark line strongly angled about vein 6, up to where it is finely edged with white externally, below this point most obscure; a tawny wedge-shaped costal patch before the apex; termen darkly dotted. Secondary brownish, with an irregular median band darkly edged; a tawny indefinite dash from the tornus.

Expanse, 19 mm.

*Hab.* Aroa River, March.

Type in my collection; other specimens in the Tring Museum.

214. **Goinocraspedum aroa** spec. nov.

♀. Palpi, head, and thorax white; body pale olive-brownish. Primary pale greyish to olive-brownish in parts; base and median area grey, with a trace of a white basal interrupted line; two slight olive patches on the costa and on the inner margin also; a patch at the end of the cell, with a white costal patch above and another white patch nearer the apex; a largish white patch before the tornus on the inner margin; a trace of an interrupted white postmedian line; a white

spotted subterminal line; termen with a white spot below the apex, with another below it; fringes with white patches. Secondary greyish whitish at the base, with a dark curved median line, followed by a white band below the cell nearly to the tornus; a white short dash, nearer the termen from the tornus.

Expanse, 21 mm.

*Hab.* Aroa River, February.

Type in the Tring Museum.

#### **Hypenarana gen. nov.**

Palpi very long, porrect, thickly scaled; second segment with long scales on upper edge; end segment at nearly right angles; basal half scaled; apex naked; antennae serrate, very fine in both sexes, with minute cilia; wings, primary moderately broad; termen excised from the apex to vein 6. Secondary small, angled at vein 2, excised from there to the angle. Neuration: primary, vein 4 from the angle, 5 from directly above the angle, 6 from well below the upper angle, 7 from the upper angle, 8, 9, and 10 stalked, 11 appressed almost on to 10; secondary, veins 3 and 4 stalked, 5 from above the angle, 6 and 7 from the upper angle.

Type: *Hypenarana rosacea* B-B.

#### 215. **Hypenarana rosacea** spec. nov.

♂. Palpi, head, thorax, and abdomen cinnamon-brown. Primary cinnamon-brown; antemedian pale line angled on the fold; postmedian line pale, suberenulate, produced outwards beyond the cell, angled inwards on the fold; area between these two lines filled in with darker brown; subterminal line darkly dotted; termen with dark dots; cell with a dark dot, followed by two dark dots at the end of it. Secondaries rosy.

♀. Like the male, without the dark median infilling.

Expanse, 19-20 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

#### **Paranoratha gen. nov.**

Palpi longish, obliquely porrect; second segment scaled with a tuft on the upper side; end segment small, scaled; antennae fine, with fine minute cilia. Legs, foreleg with a small tibial tuft, hindlegs with both femora and tibiae somewhat flattened; both wings broad. Primary, costa nearly straight, slightly depressed at the apex; termen straight to vein 4, from where it recedes rapidly to the tornus. Neuration with vein 2 from near the middle of the cell, 3 from nearer the angle, 4 from the angle, 5 from directly above the angle, 6 from the upper angle, 7 from the ariole, 8 and 9 stalked very near the apex, 10 from the ariole. Secondary with vein 5 from directly below the middle of the discocellulars.

Type: *Paranoratha fusca* B-B.

#### 216. **Paranoratha fusca** spec. nov.

♂. Palpi sooty brown; head and thorax sooty grey; abdomen paler grey. Primary greyish, with an irregular wavy rusty line rising in a dark rusty brown costal spot; postmedian line strongly excurved from vein 7 to 4, the curve

being filled in from before the reniform (which is darkly outlined) with pale rusty brown; a trace of a darkly spotted interrupted subterminal line, roughly parallel with the preceding one; termen with black dots. Secondary greyish, with a distinct dark postmedian line, angled at vein 6, followed by an indefinite darker line of shading; termen darkly pointed.

Expanse, 22 mm.

*Hab.* Aroa River, March.

Type in the Tring Museum.

217. *Moscha modesta* spec. nov.

♂. Head, thorax, and abdomen ochreous grey. Primary ochreous grey, with a slight greenish shade; a dark interrupted antemedian line from a costal spot; an olive-brown postmedian line, broad and dark below the costa; a subapical costal olive-brown patch; a trace of a pale subterminal irregular line; termen dark for the apical half; reniform blackish. Secondary darkish grey, with a dark median line.

Expanse, 18 mm.

*Hab.* Biagi, Mambaré River.

Type in my collection.

SATURNIIDAE.

218. *Opodipthera strigata* spec. nov.

♂. Head and face orange-colour; collar broadly white-edged finely above, below with chocolate-brown, with a deep crimson spot on each shoulder; thorax and abdomen yellowish buff. Both wings yellowish buff, with an oblique slightly waved brownish mauve line from well in front of the apex through each wing, and a small ocellus at the end of the cells, having a fine yellow pupil ringed alternately with mauve, yellow, and mauve. Primary with a whitish subapical small costal patch with a black wedge-shaped centre; base of costa broadly purplish for a fifth. Secondary with a waved mauve postmedian line, in addition to the oblique line mentioned before; a series of dark mauve spearhead marks in the postmedian area.

Expanse, 72 mm.

*Hab.* Mafalu, 6000 ft., August.

Type in my collection.

CHALCOSHIDAE.

219. *Eusphalera semiflava* ab. *subflava* nov.

♂. Head and thorax steel-blue; abdomen black above; ventral surface straw-colour. Primary very restricted black, with steel-blue scales at base, basal two-thirds chrome-yellow; apical third black with steel-blue scales between the veins near the apex. Secondary with extreme base narrowly black; rest of wing canary-yellow, becoming deeper at its edge. Termen broadly black, tapering down narrowly at the angle. Under surface similar to upper surface, but with a steel-blue spot at the apex of the secondary.

Expanse, 50 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

I think the neuration of this genus must be very inconstant, as in my specimens of *semiflava* and *subflava* vein 11 does not anastomose with 12, but is quite free.

220. *Eusphalera semiflava* ab. *ekeikei* nov.

♂. Similar to *semiflava*, but the yellow band of the hindwing extending right up the inner margin.

*Hab.* Ekeikei, January and February; and Kebea Range.

Type in my collection.

221. *Eusphalera semiflava* ab. *sublutea* nov.

♂. Similar to ab. *subflava*, but the forewing black, with an orange-yellow band.

Expanse, 50 to 54 mm.

*Hab.* Ekeikei, March and April.

Type in my collection.

222. *Eusphalera nigrovata* spec. nov.

♂. Head and thorax metallic blue; thorax and patagia with an orange-red central stripe; abdomen black. Primary orange-red, with the apical third black, and a large subovate black patch occupying the inner margin from the base and extending upwards in a curve well into the cell, but not reaching through the orange to the apical black area. Secondary wholly black. Underside as above with the addition of a metallic blue spot at the apex of the secondary.

♀. Like the male, but larger and brighter, and the inner-marginal black area reduced to a large spot or patch in the centre of the margin.

Expanse, ♂ 52; ♀ 60.

*Hab.* Kebea Range, June; Ekeikei, March.

Types in my collection.

The female of this species is a handsome insect.

Probably also an aberration of *semiflava*, as may be the following insect.

223. *Eusphalera pratti* spec. nov.

♂. Head and thorax metallic greenish or steel-blue. Both wings intense black, primary with a defined orange-red curved stripe across the median area, expanding very slightly basewards at the costa; subapical scales metallic blue. Secondary with an orange-red patch above the angle, narrowly extending to the costa. Underside like the upper, except that the secondary has a steel-blue marginal stripe, broad at the apex, tapering narrowly towards the angle.

Expanse, 49 to 56 mm.

*Hab.* Ekeikei, January to April.

Type in my collection.

224. *Eusphalera bicolora* spec. nov.

♂. Head, thorax, and extreme base of primary steel-blue; abdomen black above, white below. Primary black, with a creamy white slightly curved median band; metallic scales in the subapical area. Secondary creamy white, with extreme base grey; termen broadly black, tapering somewhat towards the angle. Underside as the upper, except that the base of both wings is metallic blue, that the secondary has the costa narrowly black, not interrupted as it is above, and that it also has a metallic blue apical patch extended into a short marginal line.

Expanse, 56 mm.

*Hab.* Ekeikei, March.

Type in my collection.

The genitalia appear to be identical in all the preceding forms.

225. *Eusphalera splendens* spec. nov.

♀. Head, thorax, and antennae brilliant bronzy green, abdomen pale grey, bronzy green laterally and below. Both wings velvety black. Primary with the base bright bronzy blue and golden green for nearly a quarter, and extending along the veins to the narrow creamy white transverse band, crossing the wing obliquely in front of the end of the cell; band finely edged with metallic bluish green; a curved scalloped subapical metallic blue stripe from the costa to vein 2, interrupted by the veins. Secondary with a large inner-marginal pure white patch extending all along the margin, and well over the cell edged with brilliant pale blue, especially in the cell, and more or less tinged with mother-of-pearl; a slight scaling of metallic blue at the apex. Underside as above, but very strongly suffused with pale metallic blue, and the secondary with a terminal line of metallic blue rising in an apical patch of the same colour.

Expanse, 49 mm.

*Hab.* Kebea Range, 3600 ft., July.

Type in my collection.

226. *Eusphalera lutescens* spec. nov.

♂. Head and collar metallic blue; thorax sooty black; abdomen yellow; terminal segment finely edged with blackish; ventral surface creamy. Primary black, with two short sub-basal orange-red dashes; a chrome-yellow patch on the costa near the end of the cell, extending broadly to near the tornus, but not entirely dividing the wing; a subapical steel-blue patch intersected by the veins. Secondary clear chrome-yellow, with a broad black termen, which is invaded by the yellow from vein 2 to 5; costa narrowly pale grey. Undersurface as above, except that the costa of the primary is finely steel-blue, and the secondary is encircled with a steel-blue line, broad in parts except along the inner margin.

Expanse, 46 mm.

*Hab.* Ekeikei, March and April; Kebea Range, July.

Type in my collection.

227. *Eusphalera lutescens* ab. *alboplagata* nov.

♂. Head and thorax metallic blue; abdomen deep yellow, with terminal segment edged with blackish, ventral surface pale straw-colour. Primary black, with two short subapical orange-red dashes, and a large whitish costal spot at the end of the cell edged indefinitely and obscurely with steel-blue, with a small canary-yellow dash on its basal edge; a subapical steel-blue patch interrupted by the veins. Secondary chrome-yellow, with costa finely paler; termen broadly black, invaded by the yellow from veins 3 to 4. Underside as above, except that the costa of the primary is finely steel-blue, and the costa and termen of secondary are encircled with steel-blue, the former narrowly and the latter more or less broadly.

Expanse, 40 to 44 mm.

*Hab.* Kebea Range, 3600 ft., July; Ekeikei, January and February.

Type in my collection.